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### KANSAS FARMER.

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The Government's investigations of the trusts, especially the packing trust, are assuming new vigor since the election.

The so-called Campbell system of cultivation for the conservation of moisture has been put to a practical test in Western Kansas for several years. Mr. J. H. Pomeroy, a wealthy citizen of Colorado Springs, Col., has been the promoter of the work. Reports say he is so well pleased with the results that he is organizing a company with a view of applying this system to 50,000,000 acres of the semiarid West.

From the reports of sales of purebred Shorthorns and Poland-Chinas made in various parts of Kansas last week, it is gratifying to note the fact that the demand is improving generally and that fair prices are obtained, and what is particularly gratifying is that Western Kansans are the leading purchasers.

Turkeys are turkeys this year. Reports have not been received of many of the sales made, but one farmer that we know of sold ten turkeys just before Thanksgiving, receiving \$21.43 for them. There ought to be a good deal of poetry in this kind of poultry business. If some of our kind friends will give practical directions for raising turkeys in large numbers and saving them from the many vicissitudes to which young turkeydom is subjected, so as to get them to the market around \$2 apiece, the information will be worth thousands of dollars to readers of the KANSAS FARMER.

A vital question in the natural gas regions of Kansas is how to prevent piping the gas out of the State. The entire State is interested in the question. If the gas shall be used in Kansas, manufacturing industries in great numbers and of great magnitude will be built adding to the wealth, population, and productive power and to the taxable property of the State. If this gas shall be piped into Kansas City, Mo., the chief development will be in that State instead of this. The association which has as its motto "Kansas gas for Kansas" ought to be able to find a way to protect the community wherein nature bestowed this valuable gift, in the enjoyment of its

#### SECRETARY WILSON'S REPORT.

Preliminary copies of the forthcoming annual report of Hon. James Wilson, Secretary of Agriculture, have been received. That the Department of Agriculture is presided over by a man of great executive ability becomes more manifest with each annual report. The success of the Secretary in gathering to his Department able and energetic specialists and his good sense in promoting and making effectual the capacilities of these specialists in lines of inquiry important to the agricultural development of the country has been uninterrupted.

In this notice only a few of the important works of the Department of Agriculture can be mentioned. Among these we notice that the Secretary devotes considerable space to reporting on the successful conflict waged against cattle scab and mange by the Bureau of Animal Industry with the cooperation of the State authorities. During the first nine months of the year, in 34 States and Territories, nearly 4,000,000 head were inspected, and 168,203 were found affected by the disease, while 300,000 were found to have been exposed to it. The total number of cattle dipped during this period exceeded 420,000. This work very considerably increased the expenses of the Bureau.

Considerable advances have been made in the forage-crop work. More attention has been given to alfalfa in the eastern half of the United States in the past two years than to any other crop. The Department has demonstrated that this valuable crop can be grown in almost every State in the Union. A large amount of information has been gathered the past year as to the carrying capacity of the ranges in various parts of the West. Intelligent management will bring the ranges back to their primitive state of productiveness, but it is definitely demonstrated that there is no chance of improving range conditions except where stockmen are able to control the ranges upon which their stock feed. It has also been demonstrated that many new plants may be introduced upon the range successfully. Plants that may be grown upon alkali lands have been studied.

Investigations of standard grasses have been carried on, and it is hoped that within a few years it will be possible to offer farmers small quantities of seed of improved forms of all the standard grasses. A considerable number of native American grasses have shown themselves adapted to the regions where at present hay grasses are wanting. It is believed that hay grasses can be grown on the Western plains where the average annual rainfall does not exceed 15 inches.

Extensive practical tests were made the past season with nitrogen bacteria for use in connection with the leguminous crops. Results have been even more successful than was anticipated. The several strains of bacteria sent out from the Department have proved valuable even on soils containing the uncultivated organisms in abundance. The material for inoculating an acre of soil costs the Department about one cent and the farmers scarcely anything to apply it. The demand for the organisms is constantly increasing.

The Secretary calls attention to the investigations carried on by the plant physiologist with a view to finding methods of destroying noxious algae in water supplies, the method consisting in using extremely dilute solutions of copper sulfate. Numerous tests have een made in cooperation with hoards of health and water engineers, and the method has been proved remarkably efficient. The fact that one part of copper sulfate to 100,000 parts of water will at ordinary temperature completely destroy the bacteria causing typhoid fever and Asiatic cholera suggests the great usefulness of copper in fighting these and other diseases.

The possibility of keeping injurious insects in check by the introduction of their natural insect enemies is exceedingly important to fruit-growers and farmers, and notable success has been achieved in this direction.

The Secretary places himself on record as indorsing the demands of the experiment stations for an extension of their work, which can only be met by increasing their funds, and he expresses the view that it is of the highest importance that in any future act which Congress may pass for the benefit of the stations, the Federal funds shall be explicitly granted for purposes of agricultural research, and the powers and duties of this Department as related to the supervision of those funds shall be clearly defined.

#### SOME FEATURES OF THE TARIFF QUESTION.

It is possible to discuss questions of economic importance to farmers without getting into partisan politics. This shall be our aim while calling attention to some features of the traiff question. This question is as old as the Government, but it comes up with new aspects as the development of the country proceeds. Eminent thinkers honestly differ on the fundamentals and on the details of tariff taxation. There are those who, were they making a new fiscal system for the country, would like to leave trade entirely free, raising the necessary revenue by other methods. These hold the tariff to be an unfair and insidious method of taxation, liable to become excessive because its burden can not be discerned by the individual. Others hold that a wisely adjusted tariff is not a burden at all but is an essential agency in promoting the industries-especially the manufacturing industries of the country, and at the same time an efficient method of securing needed revenue.

On the latter theory is based the present tariff system of the United

The question now is raised as to the desirability of changes in the present tariff.

It may be observed that the party in power is the party which enacted the present tariff and that it has announced no change in its theory of the tariff. Changes, if made, will, therefore, probably affect details rather than the entire system. There will be difficulty in reducing the tariff on any considerable number of articles of the list in which a large number of active constituencies are interested, for any such reduction would be met by demands for reductions on other articles in which other constituencies are interested. The practical difficulties in the way of reductions have, in the recent past, been sufficient to make the schedule reasonably stable. It has been suggested several the Kansas Farmer that an essential to the highest prosperity of the producing people of the United States is stability of conditions. Speculation thrives on fluctuations; industry on uniformity. The presumption is, therefore, against change. The presumption should prevail as to all cases except against potent reasons for a change.

There are in the tariff schedule few products of the farm. One of the most important of these, wheat, is likely to meet a demand for relegation to the free list. The import duty on wheat is 25 cents a bushel. This was enacted without active opposition at a time when it was currently believed that this country would for a long time remain a great exporter of wheat, making prices of this grain lower here

(Continued on page 1184.)

## Agriculture

Coming Events.

Will secretaries and those having the management of coming events, oblige the Kansas Farmer by sending dates?

December 30 and 31, 1904, Kansas Auctioneers' Association annual meeting.

December 8-9, Farmers' Institute, Hackney, Cowley County. Mrs. Ella Beach. Prof. E. A. Popenoe and Asst. G. C. Wheeler.
January 11-14, 1905, Farmers' Institute, Hiawatha, Brown County. E. A. Chase. January 12, Women's Day, Miss Flora Rose; January 13, Assistant V. M. Shoesmith.

Rose; January 13, Assistant V. M. Shoesmith.

December 7-8, Caldwell, Sumner County, C. M. Johnston, Caldwell. Prof. E. A. Popenoe and Asst. G. C. Wheeler.

December 14-15, Oak Grange, Shawnee County, Mrs. L. E. Tice, R. F. D. No. 7, Topeka, Kans. Profs. Henrietta W. Calvin and E. A. Popenoe.

December 18-19, Berryton, Shawnee County, W. H. Waters, R. F. D. No. 20, Berryton, Kans. Profs. E. A. Popenoe and J. D. Walters.

December 19-20, Stockton, Rooks County, J. C. Foster, Stockton. Profs. A. M. TenEyck and Henrietta W. Calvin.

February 2-3, 1905, Summerfield, Marshall County, S. Baringer, Beattle. Profs. E. A. Popenoe and Henrietta W. Calvin.

The Summerfield Institute is a joint farmers' institute of the farmers of Marshall County, Kans, and Pawnee County, Nebr.

#### Emmer.

As I am a reader, please inform me through your valuable paper what you can about emmer, when to sow and how much to the acre.

J. L. ALDERSON.

Davidson County, Tenn.

Emmer commonly goes by the name of "speltz," although the latter name is wrongly used, the speltz botanically being a grain somewhat different from emmer. The grain which we have in this country is botanically known as Triticum dicoccum. Although emmer was grown to some extent many years ago in the Eastern States and Canada, it has only recently come to notice as being a crop profitable to grow in this country, since it was introduced into the Northwestern States by German Russian settlers. The United States Department of Agriculture has also imported and distributed a large amount of the best seed of this grain.

The crop has been grown more extensively in North and South Dakota than in other States, and judging from the reports of the experiment stations of these States and the general report of

the farmers, the grain has preved to be hardy and a better producer than oats or barley. Such trials as have been made of the grain in Kansas have shown that it is hardy and well adapted for growing through the Central and Western portions of the State. Emmer is adapted for growing in a. dry climate but is hardy and produces well in wet seasons, as shown by the crops grown at this station during the last two seasons. In the following table-is shown the yields of emmer, oats and barley in the trials which were made at this station during the past two seasons:

						Yield	per acre
Crops. Emmer Dats Barley			 		 	 1.668	1904 1,466 812 1,361

It will thus be seen that the emmer gave larger yields than the other grains. In 1904, however, the oats were a very poor stand which accounts for the comparatively low yield.

Emmer is really a species of wheat but in appearance the growing grain resembles two-rowed barley, the heads being bearded and having two rows of grain. The thrashed grain also resembles barley, the hulls being usually retained when the grain is thrashed. If the hull is removed, two hard, flinty kernels are found, which very much resemble rye or macaroni wheat.

The chemical analysis of the hulled grain shows a composition much like that of wheat. The analysis of the unhulled grain which is its natural condition when thrashed, makes the grain more like barley in the relative amount of feed constituents which it contains. There is little feeding-value in the hulls, which constitute about 20 per cent in weight of the total unhulled grain, but they serve to dilute the rich grain and add coarseness to the feed.

Experiments at the South Dakota Experiment Station have shown that emmer is not usually relished by stock when fed whole, and the grain is not equal to barley, oats or corn, as a flesh-former when fed alone. Emmer is best when ground and fed in combination with other grains. The grain will hardly take the place of barley or oats as a feed, but the crop may be grown along with other grains, especially in those parts of the State where barley, oats, or corn may fail to produce profitable crops on ac-

count of drouth or hot winds, and in some parts of the State it may be grown instead of barley or oats, taking the place of those grains to a greater or less extent.

Emmer is a spring grain and should be sown early in the spring and given much the same culture as barley or oats. At this station we sow from a bushel and a half to two bushels of seed to the acre, setting the drill to sow 21/2 to 3 bushels of barley per acre in order to sow the right amount of emmer, which is a larger grain than barley. In a trial made at this station this season, however, nearly as large a yield was produced by sowing a bushel of emmer per acre as by sowing more seed. The largest yield in this trial was 33.4 bushels per acre, which was secured from seeding seven pecks of grain per acre, which was the amount sown when the drill was set to sow 21/2 bushels of barley. The land should be prepared in the same manner as for oats, and the crop should be given much the same culture as is required by spring wheat, oats, or barley. A. M. TENEYCK.

#### Rolling Young Alfalfa.

Last spring a strong wind blew out of the ground about seventeen acres of alfalfa, sown in September, 1903. It was sown rather late in the month and I presume the soil was too loose. This year I have sown again. The ground has been in millet and was disked, cross-disked, and harrowed before the alfalfa was sown. Would you advise rolling? The sowing was done on September 5 and the stand is good, but the alfalfa is not, owing to dry weather, so high as it should be.

JOHN MACDONALD.

Shawnee County.

I would not recommend rolling the field of alfalfa at this time. It might perhaps have been well to have rolled the ground before seeding, but with the alfalfa up and at the present date I do not see that any special good will come from rolling, although I do not know that rolling would do any injury to it. I do not like to have the surface of the ground hard and smooth, as a roller leaves it. I prefer to have the seed-bed firm below the seed rather than above it, and from your description of the millet ground I should judge that you had this kind of a seedbed. Your method of disking and har-



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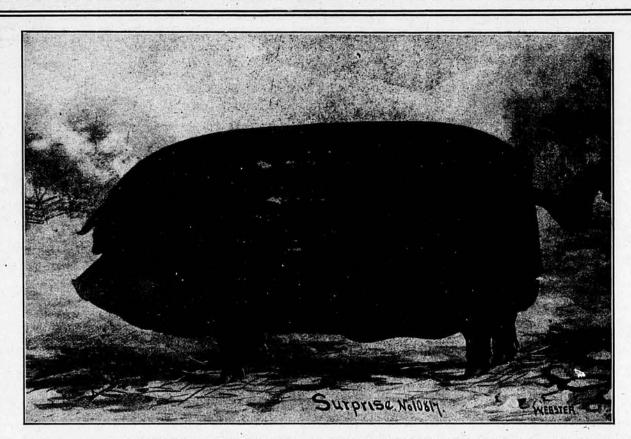
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Kansas people are interested in good hogs. Many of them are interested in good Duroc-Jersey hogs, and as they always depend on the Kansas Farmer to direct them where to get good hogs, we take pleasure this week in calling attention to the Walnut Oak Herd of Duroc-Jerseys, Smithton, Mo., advertised on page 1194. This herd is headed by Surprise 10817, who was champion at the American Royal in 1902. Associated with him is Josie F., the sow that stood first in the Missouri State Fair money, a World's Fair prize-winner and the dam of Longfellow, also a World's Fair prize-winner, as well as a winner at the Missouri State Fair. In this herd also may be found May F., a sow that never produced anything but a show pig in her life. Longfellow is now for sale, as are also a number of choice boars sired by Surprise and out of daughters of Mode, who stood first and sweep-stakes in seven State fairs in 1901. There is also for sale from this herd the four glits that were shown by Powell & Rudy this fall, as get of boar and produce of sow. They won second in the Missouri money this year. They will be bred to a son of the \$100 Bishop's Choice sired by Bell's Chief and out of Nebraska Belle. Our readers will see that it would be difficult to get more show blood together in one bunch than in this group. Powell & Rudy, the owners of Walnut Oak Herd, are well known, both for their reliability as men and for their skill as breeders. And, while visitors are inxited to inspect their herd, they can feel perfectly safe in sending the mail orders as they never ship anything that does not meet with their own approval. We take pleasure in reproducing the picture of Surprise this week, in order that our readers may see the quality of hogs now bred in Walnut Oak Herd. Mention the Kansas Farmer and write to Powell & Rudy, Smithton, Mo., and you will be pleased with what they have. Oak Herd. Mention with what they have.

rowing the millet ground in preparing the seed-bed for alfalfa is preferable to plowing, and with a seed-bed prepared as described, I do not think you will have any trouble with the alfalfa blowing out next spring. Doubtless the alfalfa which blew out last spring was sown on plowed land which was not thoroughly cultivated and packed before seeding, hence it remained loose and becoming dry, was easily cut away by the winds.

An ideal seed-bed for alfalfa should be fine and mellow at the surface a little deeper than the seed is sown, but firm (not hard) below the seed. This condition can be secured by disking and harrowing millet-stubble or cornstubble, or it can be fairly secured by plowing grain-stubble soon after harvest and by working and compacting the ground, which, together with the raius, cause it to become pulverized and settled to a good seed-bed by seeding time.

A. M. TenEyck.

#### Wheat Pasture Experiments.

PRESS BULLETIN NO. 114, OKLAHOMA AGRICULTURAL EXPERIMENT STATION.

Wheat pasture on the farms of Oklahoma is an important item and more especially in those sections where stock-raising is becoming the principal branch of the farm program. This is a new country and the farmer who is interested in the stock industry has not had time nor spare cash to build a silo in which to store a supply of palatable food for winter feeding, but he has broad acres of wheat land which will furnish, in a measure at least, a supply of succulent food during a period when the amount of such material is necessarily limited. The plan of feeding a liberal supply of silage or roots to young growing stock or dairy cows is highly recommended. Since the practice of growing roots in any quantity for feeding-purposes has not been adopted, and since no provision has been made for the ensilage of corn, the stockman is forced to look elsewhere for a supply of succulent material to use in connection with roughage, as corn- and Kafir-stover, or prairie hay, of which there is generally an abundant store. During favorable seasons the wheatfields furnish a liberal amount of fresh green pasture. The weather is generally mild and the young stock or even the dairy cows can be allowed to run upon the fields at will.

Taken in the aggregate, the value received from wheat pasture by the farmers of the territory amounts to quite a large sum of money. In the year 1903 the wheat crop comprised some 1,643,130 acres, the major portion of which was pastured during the fall and winter months. This at \$3 per acre, a very moderate estimate, would mean a net return of \$4,929,390 for the Territory. This leads up to the question which has probably come to the man who studies and plans as he endeavors to reap a profit in his business, namely: To what extent is it advisable to pasture the wheat throughout the fall or winter months? What effect will very close grazing or keeping stock upon the fields late in the spring have upon the yield of grain which is to be harvested the coming season? These and other questions suggest themselves when the subject of pasturing wheat is considered. In order to answer some of these questions the Oklahoma Experiment Station in 1902 started and carried through some work, pasturing wheat under ordinary field conditions. This work was continued under almost the same plan during the past season. The results for the two seasons, the one extremely wet and the other extremely dry, point very emphatically toward definite conclusions.

The season of 1903-04 was not very favorable so far as the wheat crop was concerned. The rainfall during the summer months was distributed quite uniformly, there being an average monthly precipitation of 3.16 inches for the four months July to October inclusive. Ground that was plowed early, from July 15 to August 1, and cultivated thoroughly at frequent intervals contained a fair supply of moisture at time of seeding. The field in which this experiment

was conducted was in fair condition when seeded, There was sufficient moisture in the soil to insure a perfect germination, hence the plants made a fair growth in the course of two months and stock was turned into the fields the latter part of November. Exceedingly dry weather prevailed during the winter months. The total precipitation for the six months commencing with November and ending with April was 3.08 inches. Soil samples taken from unpastured and pastured plats on February 29 indicated that the soil, to a depth of 12 inches, contained about 15 per cent of moisture. Early in March the lower leaves of the wheat plants commenced to dry up and fall. The growth throughout the winter months was very meager on all plats, thus the amount of pasture furnished was somewhat limited compared with the amount obtained under normal conditions.

The field and plats during the entire season were perfectly firm, thus the soil was not tramped and put into a poor physical condition as it was the previous season. When the ground is very wet and cattle are allowed to pasture upon the wheat, the texture of the soil is not only impaired but a large number of the wheat plants are destroyed. It will require more work the succeeding season to prepare the same land for wheat than would be required if the necessary precautions had been taken and stock had not been allowed to run when the soil was very wet. Such conditions are not met every year but the precaution noted above should be observed during exceptionally moist periods. In 1903 a half-acre plat that was given moderate treatment during wet periods gave a yield of 2.2 bushels per acre more than a plat of the same area upon which the cattle were permitted to run while the soil was very soft. The latter plat was also very rough for the binder at the harvest

Nine half-acre plats were used in the work during the season of 1903-04. These plats were located in a wheatfield about one mile west of Stillwater, and they were surveyed and fenced the first week in December with the exception of the three plats included under general field treatment. The cattle had been on the wheat only a short time when the plats were fenced. The soil in this field would be classed as medium upland clay loam (which is considered a good wheat soil). The different plats were divided in the following manner:

Plats 1 and 2. The wheat was not pastured after December 5, and prior to this date the cattle had been pasturing upon the plats only a few days, so that these may be considered as control plats—those receiving no treatment.

Plats 3 and 5. The stock was allowed free access to these up to February 29, at which time the gates were closed.

Plats 7, 8, and 9. The wheat on these plats was given general field treatment, that is, the lots were not fenced but the cattle were permitted to run upon these plats just as they passed over the regular field.

Plats 4 and 6. These plats were given the same treatment as 7, 8, and 9 and in addition they were pastured severely April 15 and 16, the cattle being confined to the lots until the wheat was pastured quite close.

The wheat at this date was needing rain very much. The plants on the unpastured plats were much in advance of the wheat on the plats which were pastured to February 29 while the plants on the latter plats made a much better showing than the plants in the regular field. Dry weather prevailed up to May 4, at which time the wheat commenced to head. The outlook was certainly not very promising but subsequent rains aided the wheat very materially in filling up. The crop was harvested June 16 and 17. The grain on the late-pastured plats was still slightly green.

| Grain bu. | Practice | Grain bu. | Practice | Practic

The wheat on the plats giving the best returns fell quite a little below the standard but this was true in connection with all the wheat grown in this part of the territory. On consulting the above table it will be seen that the unpastured plats gave a return of 2.56 bushels per acre more than the plats which were pastured to February 29, 4,29 bushels per acre more than the plats which were pastured to March 31, and 6.80 bushels per acre more than the plats which were pastured late.

The yield of straw on the unpastured plats was somewhat in advance of the yields obtained in the case of the other treatments. Pasturing wheat, which has made but a normal growth, even to a moderate degree has a tendency to lower the yield of grain and straw but the value received in pasture would in most cases more than cover the difference which exists.

The stock should be taken out of the wheat-field by March 1, or March 15 at the latest if reasonable returns are to be expected.

Close, late pasturing after April 1 lowered the yield to almost one-half as compared with moderate pasturing. The quality of the grain deteriorates

perceptibly with late pasturing.

Pasturing wheat when the ground is very wet will have a tendency to lower the yield of grain and at the same time injure the texture of the

Where the wheat makes a very heavy top it is advisable to pasture.

The following table gives the yields per acre on the same field in the wet season of 1902-03:

Grain	Straw
bu per	bu. per
acre.	acre.
Field pastured 20.5	1.17
Heavy winter pastured18.8	1.06
Light winter pastured20.9	1.36
Light winter and late spring	100
pastured10.7	.83
Late spring pastured14.0	.94
Not pastured 23.2	1.49

#### Sugar from Corn-Stalks.

Those who remember the rise and fall of the enthusiasm for the production of sugar from sorghum will be in position to make due allowance for the same quality of enthusiasm appearing in the following account of the proposition to make sugar from cornstalks:

Perhaps the greatest new source of wealth that for the first time has been publicly demonstrated at the St. Louis Exposition, is the discovery of Prof. F. L. Stewart, of Murrysville, Pa., that sugar of equal quality and quantity may be secured from suitable cornstalks as from the sugar-cane of the South. The jurors of the exposition, recognizing the immense value of Professor Stewart's revelation, have awarded him a gold medal, one of the highest awards possible.

The manufacture of sugar from the corn-stalk is practicable in all that great territory between the sugar-belt of the South and the short-season territory of the North. A company is now being incorporated and the capital is secured, to erect large factories for developing the Stewart process. One factory will be erected soon near Fort Worth, Texas, and another in Maryland, and others will, no doubt, follow in many districts in the suitable latitudes.

Professor Stewart has discovered and fully demonstrated in the past few years that if the ear of the maize (of suitable variety) is removed at a certain time (near the roasting-ear condition), the nature of the plant in further growth will be changed, and its sugar-making properties will be raised from say 6.70 to 13.80 per cent, as in one series of tests, i. e., 12 to 15 per cent of sugar may be obtained from the juice of stalks so operated upon. Maize plants have long been known to contain sugar in the juice of the green stems, and many times efforts have been made to utilize it; but this has hitherto been commercially unprofitable—the juice containing too little sugar at any of its natural stages, and that obtained was associated with relatively large proportions of impurities.

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be considered as a by-product, or its actual cost figured as low as one cent per pound for the highest grade (96 per cent) of unrefined sugar. Unlike unrefined beet-sugar, but like that of cane-sugar, the maize cane-sugar has naturally a fine flavor, adapting it for common use as well as for refining. The products of the plant under the new process will be-first, the ear, suitable for food-products or the silo; second, sugar-products, including white crystal, yellow and second-grade sugars, table-syrup, molasses and levulose, and molasses stock-feed; third, the cellulose products, including paper-pulps, five grades of cellulose, and viscous pyroxylin, amyloid and fine charcoal. These products of the cellulose structure of the stalk are used in the manufacture of many commodities demanded in the arts-for making celluloid, colodion, sizing, varnishes, transparent films, incandescent lamp filaments, artificial silk, gun-cotton, smokeless powder, and many other purposes. The clean fiber and the cellular-matter products result directly from the previous operations required to extract the sugar, so that the process is profitable at every stage.

To test thoroughly the practicability of this process, several varieties of corn have been grown in widely different localities between the 30th parallel and the southern limit of the beet-sugar region, about latitude 40°, and analytical and manufacturing tests have realized all the early promise of Professor Stewart's experiments. in 1898, at Murrysville, Pa., 12.64 to 13.68 per cent of sucrose was found in the juice of the process stalks; in 1899, process stalk and juice samples from Elkhorn Valley, Neb., yielded 12.61 to 13.6 per cent of sucrose in the juice (16 tons of trimmed stalks to the acre); in 1900, in Ventura County, Cal., 13.1 per cent of sucrose and 1.1 per cent of invert sugar were found in the juice, with process-stalk tonnage of 171/2 tons per acre, irrigated; in 1900, similar results were found in South Carolina, Georgia, and Pennsylvania tests. Upon the basis of 12 per cent of sugar in the juice, the estimate was made by a noted sugar expert, Mr. Edw. Wolfbauer, of New York, that the yield of sugar per ton of the corn-cane and its cost and value, at about present rates, would be: PRODUCT PER TON OF STALKS.

Second sugar, 26.8 lbs	.91	
Less brokerage and freight	\$7.95 .15	
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Staiks-transportation		

Profits per ton stalks..... \$3.00 Or, 38.5 per cent, without including any consideration of the exhausted chips for paper pulp, or for the other products we have mentioned. The quality of the pulp from the exhausted matter is superior to that from straw or wood. One variety of maize tested yielded at the rate of one ton of sugar to the acre, and 4,000 pounds of dry pulp and 2,500 pounds of food product, the latter being equivalent in value to 50 bushels of ripened corn. It is intended to manufacture sugar, cellulose and other products at the same

#### Petroleum Production in 1903.

According to the U.S. Geological Survey, the total production of crude petroleum in the United States in 1903 was 100,461,339 barrels, a gain of 11,-694,421 barrels, or 13.17 per cent over the production of 1902. The great increase was mainly due to the remarkable output in California, which is now larger than that of any other State. California produced 24.27 per cent, or nearly one-fourth of the entire production.

Next to California the largest gain in production was in Indiana, which was 1,705,515 barrels, an amount that represents a gain of 22.80 per cent over the State's production in 1902. Kansas showed a remarkable gain in production-600,465 barrels, or 181 per cent; Kentucky and Louisiana

the Stewart process, the sugar might showed gains of about 369,000 barrels each; Indian Territory gained 101,811 barrels, or 274.4 per cent; and New York gained 43,248 barrels, or 3.86 per

> On the other hand there was a slight decrease of production, 128,086 barrels, or 0.708 per cent, in Texas; and Ohio, Pennsylvania, and West Virginia all showed decreased production, amounting to a total of 1,856,619 barrels, or 3.98 per cent, in 1903 as compared with 1902. The largest decrease in production in 1903 was in Pennsylvania, and amounted to 708,724 barrels.

> During the last six years there has been a very remarkable change in the percentage of the local production. The Appalachian and the Lima-Indiana fields, which for many years produced all but a very small percentage of the whole, produced in the year 1903 only 55.38 per cent of the total, whereas in 1898 these fields produced 93.99 per cent of the total. California and Texas have been the most important factors in bringing about the readjustment of the percentages of production.

The increased production in the States of Texas, Louisiana, and California of large quantities of an inferior grade of petroleum made necessarv new markets and new conditions of transportation that were unknown to the older fields. Demand was also made for a large amount of capital to be invested in tanks, pipe lines, tank cars, and tank vessels. The markets and transportation for this new produrt have been secured to a very large extent. During the year 1903 the consumption of petroleum as fuel and as an enricher of manufactured gas has been very largely increased.

A considerable quantity of Texas petroleum has been refined with satisfactory results, but the percentage of the yield is much smaller than from the Eastern petroleum. When the value of the petroleum produced in the Appalachian and the Lima-Indiana fields is considered in comparison with that of all the remaining fields, it is found that 82 per cent of the total value comes from the 55.38 per cent of the total production furnished by those fields, the remaining 44.62 per cent of the total production receiving 18 per cent of the total value. This means that 3.8 barrels of the Southern and Western petroleum is required to equal the value of 1 barrel of that produced in the Appalachian and the Lima-Indiana fields.

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Dawson, Ohlo, June 12, 1904,
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J. C. SHORT.

Our readers are doubtless familiar with the Bowsher Combination Feed-Mills, which have been advertised in the Kansas Farmer and which are manufactured by N. P. Bowsher & Co., South Bend, Ind. It is a matter of pride to them and of satisfaction to their customers to know that they have been awarded the gold medal at the Louisiang Purchase Exposition on their display of feed-mills. This means that they manufacture the best.

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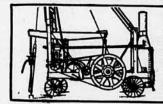
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it would require about 50 pounds or

\$1 worth of tankage, 105 pounds of

shorts or \$1.15 worth, and 215 pounds

of corn worth \$1.75. This would make

our 100 pounds of gain cost \$3.90. This

is very close figuring and any little

circumstance in the feeding may turn

the scale one way or the other and

make the gain cost more or less. If you could grind your corn for 2 or 3

cents a bushel it would probably save money to grind the corn, as

most of the experiments indicate

a saving of 8 to 10 per cent by

grinding. I think I should recom-

mend the above ration, viz., the ration

composed of about one-seventh or one-

eighth tankage, one-fourth shorts, and

the remainder corn. The proportion

of shorts might be somewhat de-

creased as the feeding progresses. It

would be necessary to feed the pigs all

they will eat with a relish, being care-

ful not to overfeed. The quicker they

can be made to reach the desired

weight the more certain you are of

making a profit. In starting to feed

the tankage it should be fed at the

rate of about one-tenth or one-twelfth

and gradually increase to the full ra-

tion. The hogs which you are fatten-

ing had better be confined in a rather

small, well-drained pen or lot as the

process of fattening will be retarded if

the hogs have too much exercise. An

abundance of fresh, pure water should

ficult than the first. Cattle can be

roughed through on hay and fodder, but pigs, such as you have, will re-

quire some grain. If you had alfalfa

hay or clover hay of high quality it

would be possible to get along with a

very small amount of grain. If you

think I could suggest a better ration than one composed of bran and shorts

equal parts at the prices mentioned. If

it is your intention to merely keep

them through the winter and then pasture and feed out next fall it will not

Your second proposition is more dif-

also be supplied to them.

## The Stock Interest

THOROUGHBRED STOCK SALES. Dates claimed only for sales which are advertised or are to be advertised in this paper.

or are to be advertised in this paper.
December 6 and 7, 1904—Chas. W. Armour, Kansas City, and Jas. A. Funkhouser, Plattsburg, Mo., Herefords at Kansas City.
December 15, 1904—Combination sale of Percheron stallions and mares, Coach stallions, and jacks and jennets, at Oitawa, Kans., S. A. Spriggs, Westphalia, Kans., Mansger.
December 21, 1904—M. L. Ayres, Shenandoah, Ia., Percheron brood mares
December 30, 1904—Dietrich & Spaulding of Richmond Kans.
Poland-Unina bred sow sale at Ottawa Kans

mond Rans. Poland-Unina brea sow sale at Otta-wa Kans
January 4, 1905—Herefords, James A. (Carpenter, Carbondale, Kans.
January 11, 12, 13, 1905—Breeders' Combination Sale, Bloomington Ill., Percherons, French Draft-ers, Clydesdales, Shires, and Coach horses; Aberdeen-Angus, Shorthorns, Galloways and Herefords. C. W. Hurt, Manager, Arrowsmith, Ill. January 20, 1805—Poland-Uninas at Girard, H. N. Holdeman.

January 20, 1805—Poland-Chinas at Girard, H. N. Holdeman.
January 31, 1995—S. H. Lenhert, Hope, Kansas, Poland-China bred sow sale.
January 25, 1805—G. A. Munson, Maxwell, Iowa, Duroc-Jerseys.
January 30, 1905—Geo. Kerr, Sabetha, Kansas, Duroc-Jerseys.
January 31, 1905—J. B. Davis, Fairview, Kansas. Duroc-Jerseys.
February 1, 2, 3, 4, 1905—Percherons, Shorthorns, Poland-Chinas, Wichita, Kans.; J. C. Robison, Towanda, Kans., Manager.
February 1, 1905—C. E. Pratt, Frankfort, Kansas, Duroc Jerseys.

February 1, 1905—C. E. Pratt, Frankfort, Kansas, Duroc Jerseys.
February 2, 1905—Poland-China brood-sow sale, by F. A. Dawley, Waldo, Kans., at Ostorne, Kans., February 2, 1905—J. O. Hunt, Marysville, Kansas, Duroc-Jerseys.
February 3, 1905—Chester Thomas, Waterville, Kansas, Duroc-Jerseys.
February 4, 1905—W. F. Garrett, Portis, Kansas, Duroc-Jerseys.
February 4, 1905—Schmitz Bros., Alma, Kans., Poland-Chinas.
February 14, 1905—E. P. Sherman, Olathe, Kans., Poland-Chinas.
February 14, 1905—E. P. Sherman, Olathe, Kans., February 16 and 17, 1905—Chas. M. Johnston, Man-February 16 and 17, 1905—Chas. M. Johnston, Man-February 16 and 17, 1905—Chas. M. Johnston, Man-

ruary 16 and 17, 1905—Chas. M. Johnston, Man-Caldwell, Kans., Combination sale of regis-

Repriatry 21, 1905—John W. Jones & Co., Delphos, Kans., Duroc-Jersey bred-sow sale.
February 22, 1905—John W. Jones & Co., Delphos, Kans., Duroc-Jersey bred-sow sale.
February 22 and 23, 1905—Shortborns and Poland-Chinas, N. F. Shaw, Manager, Plainville, Kans.
March 7, 1905—Jacks, Jennets, and stallions, at ilmestone Valley Farm, Smithton, Mo., L. M. Monsees & Sons, proprietors.

#### Feeding Questions.

The farmers are nearly all up against it this fall with a lot of hogs on hand and feed scarce. So, I refer the matter to you and ask a little advice. How can I make 200-pound hogs the quickest? Corn is 45 cents per bushel or 81 cents per hundredweight, oil-meal \$1.75, shorts \$1.10, Swift's tankage \$1.90. Now how would you go at it to feed fifty head of shoats that are nearly pure L. E. Berkshires,

large-boned and will average 100 pounds? They are just right to feed if feed were plenty. I also have forty 30-pound pigs. With what can I rough them through until grass, the cheapest and best for the

Will sowed cane fed to milch cows dry up the milk? What kind of Kafir-corn would you advise raising for all purposes? My hogs have four-acre range. Do you hink they will do better if out in a smaller range? Do you recommend a supply of oil-meal? About how many pounds per day for fifty head? C. G. NASH.

Wabaunsee County.

The first question you propound is rather a difficult one to answer, but the ondition is with us and must be met as best we can.

If it is possible to feed shoats of this class so as to get out on them at all, it ought to be done. The results of a large number of experiments have shown that it requires for hogs of this class or age, not far from 500 pounds of corn to produce 100 pounds of gain. With corn at 45 cents a bushel or 81 cents a hundred, this would cost \$4.05, which gives a pretty close margin to figure on at the present prices of pork. As yet the number of experiments with tankage fed with corn have been few in number but such as have been made indicate that a great saving in he amount of corn has resulted. Tankage is a very concentrated product and contains a large per cent of protein and so furnishes with corn a better balanced ration than corn alone. Shorts has also a very high value for feeding swine. A study of the feeding experiments would indicate that by feeding tankage at the rate of about one-seventh or one-eighth of the ration, the amount of corn per hundred pounds may be reduced to about 325 pounds. At this rate of feeding, Sheep-Raising in Kansas.

"Forty years with sheep, eighteen of which have been spent in Kansas, raising, first, grades, then pure Merinos and pure Shropshires, and feeding all classes of native and Western sheep for market, have taught me that there is no problem to be solved in the sheep industry in Kansas, but that any man of reasonable patience and industry can succeed in the business in any part of the State," says E. D. King, of Burlington. "Sheep love a dry soil, rolling land, and a sunny sky. These are the birthright of Kansas. Rich grasses for summer and generous grains for winter Kansas can give in as rich measure as any land on earth. The poorest acre in the State is as well adapted to sheep as the chalky downs of England, where her best breeds originated. The richest acre we have is not too highpriced for their profitable production. If alfalfa, sorghum and Kafir-corn can be provided for bad weather in winter, the western part of our State is an ideal breeding-ground for thousands of sheep, to be fattened on the surplus grains of our eastern counties, and on our eastern border is a market which never gets enough good mutton. Kansas cribs in the average year are groaning with a plethora of corn. When the market will not pay 50 cents for wheat, it is worth that to feed lambs. We are furnishing all the cattye, hogs, and horses the market wants, but the supply of good sheep is short, and we are not raising half the wool our mills consume. Let there be such a lack of wheat or corn as there is of sheep, and our farmers would strain every nerve to supply it, to the impoverishment of their farms, which are compelled to feed grain I do not would be yearly growing richer if they were pastured by sheep and the surplus grain fed to them. The sheep from our western counties and from

the plains and mountains beyond find

their most profitable feeding-ground

here, where they can be stopped on be necessary to keep the pigs very their way to market on a "feed-infat. Give them just enough grain to transit" rate and finished, and go on keep them growing nicely; you will

The great herd boar, owned by Gus Aaron, Leavenworth, Kans., and now offered for sale. See advertisement on page 1194.

BEAUTY'S EXTENSION 27766.

have to judge as to the amount as it will require observation from day to day to tell just how much to feed.

Your question as to feeding cane to asked. It will not dry them up if proper concentrates are fed in connection with it. Cane-fodder is a highly carbonaceous feed, succulent in the fall and is greatly relished by the cattle. If a suitable ration of grain, which should contain bran and possibly a small amount of oil-meal, is fed. you will have a suitable milk-producing ration. By itself, cane is not a milk-producing ration.

At this station the black-hulled white Kafir-corn has yielded a little higher over a period of years, but the red Kafir-corn is a little earlier, so you will see there is very little difference between them. G. C. WHEELER,

Kansas Experiment Station.

In the Youth's Companion for December 1, Priscilla Leonard tells of the discovery by which the bacteria that provide soil fertinity may be introduced into arid and unproductive lands, practically without cost to the farmer.

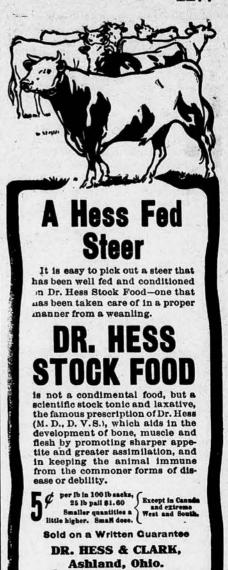
as our farmers' manufactured product. If it is usually profitable to work raw material into a finished product, it is certainly profitable for our farmers to milch cows is one that is frequently work up their raw material, and secure the triple profit of the manure, the fleece, and the additional price for ripened mutton. Yet the farmers of Michigan and Ohio are buying these sheep, and paying the extra freight and an extra commission and yardage charge, and feeding on higher-priced feeds, and making money. Why do Kansas farmers allow their advantage in this matter to slip away from them?"

#### Feed for Fattening Hogs. .

How much feed is required to produce 250-pound hogs from pigs 6 weeks old? The pigs are full-blood Poland-China. What proportion of shorts to corn should I feed? The feed is shorts and corn.

Shawnee County. Jno. WISEMAN.

The inquiry which you make is a very interesting one, and one which





lso manufacturers of Dr. Hess Poultry Pan-a-ce-a and Instant Louse Killer.

Car-Sul is a Non-Poisonous, Coal Tar, Disinfectant Dip of unusual strength and efficiency, simply mixed with water, 2 parts to 100 and used on Hogs, Cattle, Horses, Mules, Goats and Poultry with dip-tank, spray orsprink-ier, will quickly kill Lice, Ticks, Germs and all Vermin; cure Mange, Scurvy and Measles.

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Is valuable in a hundred ways around
house and barn; our free book tells all
about it and gives price of dip tanks.
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Sure relief for Pink Eye, foreign irritating sub-stances, clears the eyes of Horses and Cattle when quite milky. Sent to responsible stockmen on 30 days trial, or sent prepaid for the price, \$1.00. Address orders to W. O. THURSTON.

Elmdale, Kansas

## LUMP JAW No Cure

S. Sneed, Sedalia, Mo., cured four steers of plaw with one application to each steer; and Keeseman, Osborn, Mo., cured three cases one application to each. Hundreds of similaritimonials on hand. Full particulars by Write to CHARLES E. HARTLETT, Columbus, Kansas.



NEWTON'S Heave, Co temper and Indigesti A veterinary specific threat and stomach

might well be studied by any producer of pork. It is generally considered that about twenty bushels of corn is required to produce a hog weighing 250 pounds. This can be reduced somewhat if some dairy by-products are available to feed the pigs while young.

The following table taken from Henry's Feeds and Feeding gives the results of about all of the experimental data obtainable bearing on this subject. In this table, six pounds of skimmilk have been calculated equivalent to one pound of grain where skim-milk has been fed, thus reducing all the figures to grain, or grain equivalent:

It will be noticed that the three lots
are very nearly equal in the gains
made. The no-pasture lot con-
sumed 557 pounds (or 70 pounds for
every 100 pounds of gain) more grain
than the pasture lots. The lot receiv-
ing rape pasture required an area of
one acre, those on alfalfa pasture, one-
half acre. The lot without pasture re-
quired 371 pounds of grain to produce
100 pounds of gain. Assigning the
same value to the grain fed the hogs
on rape pasture gives 874 pounds of
pork credited to the grain, and 202
pounds credited to the rape. At 6
- (
cents per pound, the price at which
hogs were selling at the close of the

Weight of pigs in pounds.		No. of stations reported.	Total number of trials.	No. of animals fed.	Av. feed eaten per day.		Av. gain per day.	100 lbs. gain.
15 to 50	mo	. 9	41	174	1bs. 2.23	1bs. 5.95	0.76 0.83	293 400 437 482 498 511 535
50 to 100	128	13 13 11	100 119	417 495 489 300 223	3.35 4.79	4.32 3.75	1.10 1.24	437
150 to 200		11	107 72 46	300	5.91 6.57	3.43 2.91	1.33	482
250 to 300	320	8	46 19	223 105	7.40 7.50	2.74 2.35	1.46 1.40	535

A careful study of this table will show many interesting things in pigfeeding, and as it is the average of a large number of experiments in which many animals have been used the results may be considered as very accurate. In the seventh column of this table it will be noted that the young pigs consumed a much larger amount of grain daily per hundred pounds of live weight. In the last column of the table it will be noted that the young pigs make a hundred pounds gain from a much smaller quantity of grain consumed, there being a gradual increase in the grain required to produce one hundred pounds of gain as the hog grows older.

The economy of marketing pork at as early an age as possible may be readily seen from this fact.

If the only feeds you have available are shorts and corn, for the present you might feed as high as one-half to two-thirds shorts as the young pigs require much more growing material than is supplied by corn alone. If possible, the corn should be ground and the whole fed in a moistened condition. As the pigs grow older, the percentage of shorts may be decreased until the last week or so, when the feed may be almost pure corn. If impossible to grind the corn, it may be fed on the cob or shelled, and as the corn begins to dry and get hard it will probably be best to soak it over night. This is not necessary, however, unless the corn becomes too hard and flinty to be eaten readily. G. C. WHEELER,

Assistant in Feeding Experiments, Kansas Experiment Station.

#### Pasture and Grain for Hogs.

Replying to Mr. R. O. Stewart's inquiry as to what is the cheapest way to raise hogs when one has an abundance of alfalfa and it is still necessary to feed them on a full grain feed from start to finish, I would say that the question asked by your correspondent is a very hard one to answer, as price of feed and the market price of fat hogs vary so much that it would be almost impossible to prescribe any one ration that would be the cheapest and most profitable hog feed. When one has an abundance of alfalfa pasture it is without a doubt one of the best and cheapest hog feeds that we have. If the price of hogs were high and grain comparatively cheap, it would perhaps pay to crowd them on grain as fast as possible, even although they had alfalfa pasture. On the other hand, if hogs were cheap and grain high, it would be best to allow them to make their growth on alfalfa and feed as little grain as possible. Grass is by far the cheapest flesh-producer that we have and it should be made use of whenever it is possible. The results of the last experiments here with hogs are shown in the following tables:

experiment, this would bring us an income of \$12.12 per acre for rape. In like manner the alfalfa is credited with 204 pounds of pork, equal to \$12.24, and, as there was only one-half an acte of alfalfa, this makes a rate of \$24.48 per acre. This experiment emphasizes the value of Dwarf Essex rape, which can be seeded in the feedlots that would otherwise go to waste or grow up to weeds, and be made to pay a handsome profit on the invest-

			Grain	(	Gains.	Amt. grain per 100 lbs.	Amt. rough- ness per 100	
Lots.	No. hogs.	Days fed.	consumed.	Total.	Daily per		lbs. gain.	
With alfalfa	12	56	3,780	812	1.20	465	102	
Without altalfa.	12	56	4,227	799	1.18	529	•••	

We find that 102 pounds of alfalfa hay takes the place of 64 pounds of grain. Assuming that it requires 529 pounds of grain to produce 100 pounds of gain, as indicated in the lot without altalfa, 714.5 pounds of the 3,780 pounds gain in the lot with alfalfa is to be credited to the grain and the remaining 97.5 pounds to the alfalfa fed. At this rate the alfalfa hay would produce 235 pounds of pork per ton.

The pasture is not only economical from the standpoint of gains but it furnishes succulence and variety and keeps the hogs in a healthier condi-R. J. KINZER.

#### Wichita Poland-China Sale.

Wichita Poland-China Sale.

The day after Thanksgiving, Messrs. W. M. Messick & Son, Pledmont, and W. R. Peacock, Sedgwick, held a combination sale of Poland-China swine in Wichita, Kans., under the very able leadership of the auctioneers, Col. J. W. Sparks, Marshall, Mo., and Col. Tafe Burger, Wellinotgn, Kans. The arilmus were all in good condition and showed up well in the sale-ring, but the buyers were not as much in evidence as they should have been, and we believe that the fact of the sale being held the day after Thanksgiving would help account for the shortage of bidders. And while the prices realized were reasonable, none of the animals sold for what could be called high prices, nor in fact probably within 25 per cent of what they should. But as the consignors stated at the beginning of the sale, if a bid was made on an animal it would surely be sold. We believe that if these gentlemen hold a sale gett year the prices prevailing wil be better. One other reason for prevailing low prices at this sale in this locality was the high price of corn. Some of the breeders felt that they could not buy any more animals than those which they were actually in need of. The top price for boars was \$50 for L's Corrector \$7093 A, who was bred by Winn & Mastin and owned by W. M. Messick & Son, and went to S. J. Larimer, Derby, Kans. The top of the sow sale, May Lighter 227104 A, bred by Winn & Salina, for Derby, Kans. The top of the sow sale, May Lighter 227104 A, bred by Winn & Mastin and owned by W. M. Messick & Son, went to A. M. Campbell, Salina, for \$80. Mr. Campbell was not present in person but had authorized his agent to bid as high as \$100 for this animal. The other buyers were John D. Snyder, Winfield; J. S. Wallace, E. Clark, W. M. Ranson, L. C. Huber, Jas. Wilson, T. H. Sparks, Wichita; S. R. Hefner, Piedmont; F. H. Wineke, Marlon, Iowa; Ed. Pray, Klowa; Frank B. Hughes, Purcell, I. T.; C. C. Fair, Sharon; J. R. Mingle , Anthony; A. Van Riper, Arlington; Geo. T. Ecton, Liberty, Mo.; W. W. Trego & Sons, Sedgwick; W. J. Honeyman, Madison; Ray, Krack, Andover; G. Dick, Whitewater; F. M. Sumpter, Argonia; John B. Freese, Clearwater; J. B. Hall, Rose Hill; Thos. Marnane, Benton; F. B. Hughes, Purcell, I. T.

The 26 head sold by W. M. Messick &: The 26 head sold by W. M. Messick & Son brought \$684, averaging \$26.30; 15 boars

 
 Gain.
 Grain consumed per 100

 Total.
 Daily per head.
 lbs gain.

 lbs.
 lbs.
 lbs.

 1,023
 1.04
 371

 1,076
 1.08
 301

 1,078
 1.10
 300
 No. of hogs. Days fed. consumed.

10 98 3,801

10 98 3,244

10 88 3,244 Grain 

 I. No pasture.
 10

 II. Rape pasture.
 10

 III. Alfalfa pasture.
 10

brought \$360, averaging \$25; ii sows brought \$324, averaging \$29.45. W. R. Peacock sold 18 head for \$339.50, averaging \$18.64; 7 boars brought \$98.50, averaging \$14.60 eraging \$14.60 and 11 sows brought \$241, averaging \$21.90.

#### Missouri Berkshire Assolation.

Editor Kansas Farmer:—The following named Berkshire breeders met in the Moberly Commercial Club parlors Thursday evening, November 17, 1904, for the purpose of organizing a State Berkshire Breeders' Association: T. A. Harriss, Lamine, Mo.; J. K. King, Marshall, Mo.; Evan Davies, Dalton, Mo.; L. E. Frost, Moberly, Mo.; C. D. Tudor, Salisbury, Mo.; J. C. Roberts, Clarksville, Mo.; Holman Brothers, Auxyasse, Mo.; James Wren, Keytesville, Mo.; Sam Spelman, Sturgeon, Mo., and C. E. Buchanan, Moberly, Mo.

berly, Mo.

Mr. Davies called the meeting to order, and stated that the object of the meeting was to form a State Berkshire Breeders' Association, the object of which would be to promote the best interest of all Berkshire breeders in the State, to hold public sales of Berkshire hogs and to disseminate more information regarding the Berkshire hog than has been done in the past. He stated that there was at present a marked interest among the farmers generally in the Berkshire hog, and in his opinion the Berkshire had a great future.

ers generally in the Berkshire had a great in his opinion the Berkshire had a great future.

L. E. Frost was made chairman, and Mr. C. D. Tudor, secretary of the meeting. The election of officers resulted in L. E. Frost being eletced president, and Mr. C. D. Tudor secretary, and Mr. J. O. Roberts treasurer. Name of the association to be "The Missouri Berkshire Breeders' Association," and every Berkshire breeder in Missouri to be ellgible to membership. Mr. King suggested that a sale of bred sows be held somewhere in the State some time during the month of February, and that in all future sales not over 25 per cent of the total number catalogued be males. In fact it was his opinion and also that of every other member present that it did not pay to sell male hogs at publis sales, but it would be better to discriminate more carefully, and only keep the very best males and sell them at private sales. It was determined

to hold two sales a year, time and place to be set by executive committee.

A committee on by-laws and constitution was named consisting of Evan Davies, T. A. Harris, and June K. King. Committee to report as soon as possible. The officers of the association, together with committee on by-laws was named as executive committee. Thanks of the association was voted Mr. W. E. Hurlbut, of the Ruralist, for his untiring efforts in behalf of the Berkshire breeders and the Berkshire hog.

of the Ruralist, for his untiring efforts in behalf of the Berkshire breeders and the Berkshire hog.

Every breeder of good standing in the State of Misseuri is urged to become a member of this association, and until the association is im perfect working order, there will be no assessment of any kind, and the annual dues in the future will be a wery nominal sum.

It is hoped that all breeders will send in their name and address to Mr. C. D. Tudor, Salisbury, Mo., as it was the concensus of opinion of the members present at this meeting that by a united effort on the part of the Missouri Berkshire breeders that the Berkshire hog could be placed on the high plane where he belonged, believing that when farmers and feeders became better acquainted with the true merits of this hog that the already large demand for them will be greatly increased.

C. D. TUDOR, Secretary.

### Sunny Slope Berkshire Sale.

Sunny Slope Berkshire Sale.

One of the most successful sales of Berkshire swine held in the West during recent years, was the first auction offering of Berkshires ever made by C. A. Stannard, Emporia, on November 23.

Notwithstanding the fact that Berkshire sales in the West the last two or three years have not been very successful, Mr. Stannard's offering was so uniformly excellent that the bidding was fairly lively and the general results considered satisfactory, although he had a right to expect higher values, considering the breeding and quality of the offering.

Cols. R. E. Edmonson, Kansas City; Lafe Burger, Wellington; and O. P. Updegraff, Topeka, managed the selling in a very satisfactory way. Several sows bred to Berryton Duke, a full brother to the \$1,000 Masterplece, sold well. The highest price realized for sows was \$56, and nine head sold for \$40 and upwards. The heaviest buyers at the sale were T. F. Guthrie, Staffordville, Chase County, Kansas, and E. O. Crighton, Rosswell, N. M.

The result of the sale, sixteen boars averaged \$16.53 fifty-five sows and silts averaged \$16.53 fifty-five sows averaged \$16.53 fifty-five sows averaged \$16.54 fire five sows averaged \$

Kansas, and E. O. Crighton, Rosswell, N. M.

The result of the sale, sixteen boars averaged \$16.53, fifty-five sows and gilts averaged \$28.16, seventy-one Berkshires brought \$1.845.50, a general average of \$26.

The sale was admirably managed—a feature of all Sunny Slope sales. Everything was in place before the sale. There was no waiting, but everything moved smoothly. With two such veterans as C. A. Stannard and his manager, George W. Berry, however, nothing less was expected. It was one of the cleanest, straightest, most satisfactory sales of the year, and for the number sold, one of the best that has been held in this section in Berkshires sales in many months.

Among the buyers other than those mentioned were the folowing: E. D. King, Burlington, Kans.; M. M. Detar, Edgerton, Kans.; F. A. Scherzinger, Nelson, Neb.; George Wilder, Emporia, Kans.; John Perrier, Emporia; Chas. Hager, Randolph, Kans.; J. H. Howe, Emporia; Norman Dietrich, Plymouth, Kans.; J. H. Macy, Emporia; W. F. Gray, Allen, Kans.; T. E. Roberts, Tecumseh, Neb.; J. M. Rogers, Saffordsville, Kans.; W. F. Nevius, Fairfax, Neb.; H. Rogler, Bazaar, Kans.; R. C. Hunter, Cottonwood Falls, Kans.; W. I. Brown, Emporia; R. L. Jones, Emporia; John R. Lewis, Lafay-

**NEVER FAILS** to bring down the game if theskill is behind it. There are no better, arms made than the shotguns and rifles that have ever been regarded as the highest example of gun-making the world over. the world over.

We have just published a 140 page book worthy of its subject, dealing not only with the famous 'Stevens' arms, but containing many interesting articles on hunting, shooting, how to handle and care for firearms, notes on sights and ammunition, etc. This

VALUABLE BOOK FREE BOOK FREE u will send two 2-c. stamps to cover postage. Our clever Riffe Puzzle will be sent FREE, post; aid, to any address—it will stick you at first—write for it, if you will send two 2-c. stamps to J. STEVENS ARMS AND TOOL CO., 404 Pine Street, Chicopes Falls, Mass., U. S. A.

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The home of the largest and best herd of redistered Jacks and Jen ets in the United States. Won 70 prizes at the great World's Fair, including every champion and grand champion and every first prize in all classes except three. Also saddle stallions for sale. Come and see us and we will treat you right.

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Smithton, Pettis County, Mo.

## ENTIRE HERD FOR SALE

Thirty Holsteins for \$1,500. Includes 29 females and one buil at head of herd, all registered but 3 cows and located at Asbury, Mo. Or will rent out on shares to responsible party. Am obliged to make some immediate disposition of herd, hence this offer. This advertisement only appears this once, so write or wire me immediately.

ALPHEUS M. SMITH, Point Loma, San Diego, Cal.

## RIVERSIDE HERD DUROCS.

Headed by Dandy Boy 10721 (1100 pounds), three times champion boar at State Fairs. For immediate sale: 15 spring boars and 20 spring gilts. Address

Mr. & Mrs. W. R. Crow, Hutchinson, Kans.

### Big-Boned, Lengthy Poland-Chinas

I have for sale two herd boars, one sired by the great Missourl's Black Perfection, the other by Perfection Chief; they are extra good. Also 25 large, big-boned, growthy spring boars and about the same number of gilts. My specialty is to breed the kind that is the most profitable.

E. E. WAIT, Altoona, Wilson Co., Kans.



If you will send me your name and address. your name and address.
I will send you ABSO-LUTELY FREE my 100
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PAIN OR SURGERY. DR. E. O. SMITH, 2810 Cherry St. KANSAS CITY, MO.

HANDY HERD REGISTER—The improved Handy Herd Book for swine breeders is a record book that every breeder should have. It is perfect, simple, practical and convenient and contains 101 pages or about one cent a litter for keeping the record. The regular price of this handy herd book is \$1, but we furnish it in connection with the Kansas Farmer one year for only \$1,50.

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ette, Ind.; W. B. Shockey, Derby, Kans.;
B. B. Burns, Admire, Kans.; J. W. Mizer,
Sanfordsville; M. J. Collard, Olpe, Kans.;
Sanford Smith, Carthage, Mo.; S. J. Wilkinson, Saffordsville, Kans.; W. F. Corbin, Corder, Mo.; J. E. Wells, Weston,
Mo.; W. O. Knapp, Guthrie Center, Iowa;
A. E. Stoughton, Madison, Kans.; J. F.
Pierce, Lyndon, Kans.; A. B. Smith, Lyndon; W. C. McLean, Checotah, I. T.;
Daniel Richard, Olpe; Tavender Neal,
Brownsburg, Ind.; W. T. Pickens, Honey
Grove, Texas; Fred Cottemyer, Emporia.
Before the sale Mr. Stannard made an
appeal to his neighbors to use the Berkshires and in his remarks said: "I breed
Berkshires because they make more meat
for the same amount of feed and time,
and because I can make the most dollars
from them. I have bred Poland-Chinas,
Chester Whites, and Durocs but the
Berkshires have proved the most profitable."

#### Ranson's Shorthorn Sale.

Ranson's Shorthorn Sale.

On Saturday, November 26, Wm. H. Ranson, of North Wichita, Kans., held a most successful public sale of Shorthorns at Wichita, at which Col. Lafe Burger, of Wellington, Kans., and Col. J. W. Sparks, Marshall, Mo., did a creditable plece of work as auctioneers. Mr. Ranson supplemented his draft from the Evergreen Ridge Herd by including eleven head from the herd of W. W. Vaughn, Marlon, Iowa. The top prices realized for bulls was \$150 paid for Baron Knight, the son of Gallant Knight, Tomson's herd bull, Dover, Kans. This was sold to W. A. Hotchkiss, Valley Center, Kans. The other top-notch sale was for the bull, King Richland 2d, a young bull consigned by W. W. Vaughn, which sold to J. H. Hensol, Salt Fork, Okla., for \$155.

The top price for cows was for Merry Lad 3d and b. c., sired by Highland Chief 136717.

Lad 3d and b. c., sired by Highland Chief 136717.
Fourteen bulls sold for \$1,080, an average of \$77.14. Eighteen cows and heifers sold for \$1,430, an average of \$80. Thirty-two Shorthorns offered sold for \$2,150, a general average of \$78.44. The sale in de-tail was as follows:

BULL SALES. BULL SALES.

Baron Knight 134946, W. L. Hotchkiss,
Valley Center, Kans. \$150

Daniel, E. Kerns, Sedgwick. 65

Lord Wild Eyes 227242, Ira Kelly, Valley Center. 65

General Stone 220687, M. Kops, Derby. 85

Lord Peri, J. E. Cockrell, Wichita. 65

Leader, Cliff Smith, Kingman. 55

General Kuroki, W. E. Brooks, Wichita. 65

Jocko, W. M. Booth, Waco. 65

Merry Monarch, P. B. Wycoff. 65

General's Sharon, H. M. Nelson, Clearwater. 50 

#### William Wales' Great Shorthorn Sale.

On November 23, 1904, Wm. Wales, Osborne, Kans., held a remarkably successful sale of Shorthorn cattle, one of the very best held in Kansas this year, making the highest average of the three sales held in Kansas last week. This speaks well for the class of cattle offered and the enterprise of the breeders of Northwest Kansas. The Riverside Herd is headed is Brave Knight 3d 182522, by Gallant Knight 124468 out of 2d Bele of Dover by Thistletop 83876. It will thus be seen that he has one of the best bred bulls in the State and the record he made in his sale is at once creditable to this bull as a sire and to the breeders who were present as purchasers. The details of the sale were as follows:

BULLS. Star of Riverside 226305, Chas. Gal-

Hazel 5th of Riverside, Len White, Delphos.
Orphan Girl of Riverside, F. F. Layman, Portis.
Ophelia of Riverside, F. A. Dawley.
3d Josephine of Riverside, F. Layman. man. 90.00
Oakland Lady 3d, S. S. Simmons. 108.00
Sunflower of Riverside, Geo. McMullen. 112.50
2d Blossom of Riverside, F. Layman 95.00
Victoria of Riverside, F. Layman. 85.00
Pride of Riverside, F. Layman. 126.00
Lady Knight of Riverside, F. Layman. 15.00

#### Breeders Combination Sales at Hope, Kans.

Con November 22, the Hereford breeders of Dickinson and Marion Counties made the opening sale in the new sale barn and pavilion, erected by the cattle- and swine-breedrs of Dickinson and Marion Counties, as a place for future breedres' combination sales of Hereford and Shorthorn cattle, Berkshire, Duroc-Jersey, and Poland-China swine, and as usual in such cases the first sales encountered the difficulties incident to a joint offering of different sorts and ages of stock, and in consequence of which the offerings were not made with that system which is found necessary in an individual sale, resulting in lower average prices than might have been obtained.

The auctioneers in charge of the Here-

might have been obtained.

The auctioneers in charge of the Hereford sale were Cols. J. W. Sparks, Lee Stagg, and A. C. Marriatt. Twenty-five bulls sold for \$1,640, an average of \$65.50, and twenty-two cows and heifers sold for \$1,215, an average of \$55.23. The forty-seven Herefords sold for \$2,255, a general average of \$60.74. The top price realized for bulls was for the imported bull, Duke of Clarence 138106, consigned by W. H. Rhodes, which went to Albert Dillon, Hope, for \$115. The top price for females was the heifer, Java's Princess 148844, consigned by W. H. Rhodes and sold to David Musz, Hope, Kans., for \$130.

The contributors to the sale were: Al-

David Musz, Hope, Kans., for \$130.

The contributors to the sale were: Albert Dillon, Hope; A. L. Evers, Dillon; J. B. Shields, Lost Spring; W. H. Rhodes, Tampa; and Mrs. E. C. Chamberlain, Hope, Kans.

The complete list of purchasers are as follows: S. M. Lehman, Leoti; Thos. Gribben, Hope; A. L. Hollinger, Pearl; Geo. Dillon. Hope; R. Longhofer, Woodine; J. H. Mapes, Salina; J. K. Frank, Lost Springs; David Musz, Hope; W. F. Ziebell, Herington; M. Rhodes, Tampa; Thos. McLain, Dillon; Arthur Hill, Hope; John Riffel, Herington; Geo. Dunlap, Hope; John Congrove, Elma; Chas. Kyntoon, Wakefield; Henry Kandt, Herington; A. Lietz, Herington; Ernest Myers, Hope.

The second day's combination sale was ington; A. ers. Hope.

ington; A. Lietz, Herington; Ernest Myers, Hope.
The second day's combination sale was under the auspices of the Dickinson County Shorthorn Breeders' Asociation, and the following members contributed from four to eight head each: C. W. Taylor, Pearl; D. Ballantyne & Son, Herington; J. F. Landis, Abilene; G. W. Kelly, Detroit; and H. R. Little, Geo. Channon, M. C. Hemmenway, and S. H. Lenhert, of Hope, Kans. Colonel J. W. Sparks, assisted by L. R. Brady, Manhattan, and Lee Stagg, Hope, did excellent work in overcoming the difficulties and obtaining the results made.

Seventeen bulls averaged \$53 and thirty-

Seventeen bulls averaged \$53 and thirty-one cows and heifers averaged \$70, forty-eight Shorthorns selling for \$3,027.50, a

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The Difference

between your hogs in "fair" condition and the same hogs in really good condition is about 40 pounds a head in weight and 20c a hundred in price—a difference of between \$2 and \$3 a head. That difference represents a large part of your profit. You can make that difference and get that profit at very small cost, increasing the weight, improving the condition, perfecting the finish, shortening the fattening period, without feeding a single peck more corn, by the sensible use of

The Standard of all Stock Foods. There is no question about it. sands of hog raisers are doing it every year. Standard Stock Food helps the hog get more good out of the feed you feed. It will pay you big—not only for hogs but for every animal on your place. Standard Stock Food, added to the regular ration, will help you get more beef, pork, mutton, milk, muscle, growth, finish, condition, or whatever you are feeding for, and will do it better, sooner and cheaper than any other stock food. "It makes stock thrive." Why not investigate for yourself?

We have an agency with one dealer in each town. If you do not know who our agent is, write us. Do not take an imitation—get genuine Standard. Ask your dealer for Standard Poultry Food and take no other.

It makes hens lay.

Send to-day for Free Offer. If you have never used Standard Stock Food and will make you a special free trial offer, which will surely interest you.

THE F. E. SANBORN CO., 1517 Howard St., Omaha, Neb.

general average of \$63.07. The top price of the sale was \$120, paid by Richard Waring, Abilene, Kans., for Lone's Hope, a 2-year-old helfer sired by Royal Crown. The bull, Pride's Crown, topped the male offering at \$110, and sent to Carl Gaunghanns, Lincolnville. Both of these animals were consigned by H. R. Little, Hope.

Sena for

free Book

Hope.

The number and average price realized for each consignor was as follows:

C. W. Taylor, five head, average \$67.

D. Ballantyne & Son, six head, average \$67.

H. R. Little, eight head, average \$58.2.

J. F. Landis, five head, average \$58.12.

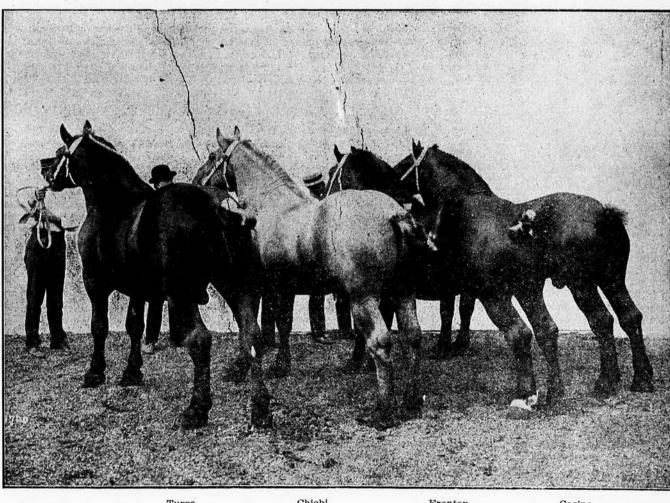
M. C. Hemenway, seven head, average \$51.43.

S. H. Lenhert, five head, average \$47.

G. W. Kelly, four head, average \$48.75.

Eight times in the sale the \$100 mark was reached or exceeded. C. W. Taylor's lith Linwood Hill sold for \$105 to J. E. Breechhill, Moonlight, Kans. D. Ballan-

tyne & Sons' Roan Prince sold for \$100 to F. P. Harnett, Solomon City, Kans. H. R. Little's Lady Barrington 4th and Pride's Crown sold for \$100 each, the buyers being respectively C. E. Rhodes, Dillon, Kans., and Charles Gaunhanns, Lincolnville, Kans. George Channon's Roxanna brought \$105, James Lombard, Hope, Kans., buying her. J. E. Landis' Royal Lady sold for an even hundred to C. E. Rhodes, and M. C. Hemenway's Red Rose sold for \$100 to J. H. Long, Ramona, Kans. Mesrs. S. H. Lenhert and G. W. Kelley consigning mostly younger things failed to reach the \$100 mark. Buyers not already mentioned are: John Keefer, Hope, Kans.; James Haley, Hope; John McLoren, Herington, Kans.; J. P. Scott, Navaroe, Kans.; Henry Musser, Donegal, Kans.; Victor Anderson, Burdick, Kans.; L. H. Brandt, Ramona, Kans.; Clem Bell, Holland, Kans.; D. Ballantyne, Herington, Kans.; J. R. Hatfield, Hope, Kans.; Aaron Moss, same; Henry Schill-(Continued on page 1190.)



Fronton. (Grand Champion.)

Casino.

The four winners of First Prize in the regular stallion classes, St. Louis, 1904. Owned and exhibited by McLaughlin Bros., Kansas City, Columbus and St. Paul.

## The Houng Folks The Houng Folks

CONDUCTED BY RUTH COWGILL.

#### The Washerwoman's Lament.

An sure I was tould to come in till yer Honor To see would ye write a few lines to me Pat?

gone for a soldier is Misther O'Conner, Wid a stripe on his arm, and a band on his hat.

And what'll ye tell him? Sure it must be aisy For the likes of yer Honor to spake wid a pen.
Tell him I'm well, and mavourneen Daisy
(The baby, yer Honor) is better again.

For when he went off, so sick was the darlint, She never hilt up her blue eyes till his face, And when I'd be cryin' he'd look at me wild-like, And ax. "Would I wish for the country's disgrace?"

So he left her in danger, an' me sorely And followed the flag wid an Irishman's

And it's often I drame of the big drums a batin'. And a bullet gone straight to the heart of me boy.

Tell him to send us a bit of his money
For the rint, and the roctor's bill due in
a wake;
But sure—there's a tear on your eyelashes, honey,
In faith, I'd no right wid such fradom to
speak.

I'm over much triffin'. I'll not give ye trubble—
I'll find some one willin'—oh! what can it be?
What's that in the newspaper yer foldin' up double?
Yer Honor, don't hide it, but rade it to me.

to me. Dead! Patrick O'Conner! oh, God! it's some ither. Shot dead! Sure a week's scarce gone

An' the kiss on the cheek o' his sorrow-ing mither, It hasn't had time yet, yer Honor, to dry.

Dead! Dead! Oh, my God, am I crazy?
Shure it's brakin' my heart, yer tellin'
me so.
And what in the world will become of
me Daisy?
Oh, what can I do! Oh, where shall I
go!

This room is so dark, I'm not see', yer

Honor; I think I'll go home—and a sob, hard and dry, Rose up from the bosom of Mary O'Con-

ner, But never a tear-drop welled up to her -Anonymous.

### A Great Privilege.

"What a splendid fellow he is!" Howard Tyler's face brightened with admiration as he watched his

young host alight from his wheel and guide it carefully along the carriageway to the side entrance. Then, resuming the search through his bag for a missing collar-button, his

thoughts ran on:

"I'm going to be just like Walter Chase as soon as I get the chance. There's a fellow that has his own way in everything. I wish my father and mother would take pattern from his. Judge Chase treats Walter as if he were a gentleman, and not a boy to be kept under. He's a champion golf player. I must learn golf. He likes football; he said so. He rows, too. Oh, he's up in everything! His mother says he's studying hard. I suppose I'll have to, when I get into highschool. He isn't any better-looking than I am," with a sidelong glance into the mirror. "But isn't he straight! Mother's always talking to me because I'm round-shouldered. This is the way he goes;" and Howard straightened his back and walked across the room in awkward imitation of the young athlete's graceful car-"My! it makes me feel tall. Guess I'll have to practice it."

Judge Chase and Mr. Tyler had been classmates and chums at Yale, and since both were prominent lawyers they visited each other occasionally, for the double purpose of renewing their friendship and consultation on some perplexing law case. A year ago Judge and Mrs. Chase had spent a few days at the Tylers' home in Nickleton; and now Mr. Tyler and his wife had come to Gay Harbor for a short visit, with Howard-their only son-who had been included in the judge's invitation.

Howard had never been in Gay Harbor before, and this was his first meeting with Walter Chase. As Walter was three years his senior, Howard

being but thirteen, he had looked for little attention from the judge's son. In this he was happily mistaken, Walter receiving him with such cordiality, and entertaining him so delightfully, as to win his heart at once.

After luncheon Judge Chase addressed his son, at the same time taking a large envelope from his pocket:

I promised Senator Browning that he should have this paper to-day. It is valuable, and the new office-boy is too careless to be trusted with it. Can you find time to leave it at his house this afternoon?"

"Certainly, father," was the ready response; "I will go now." Then, turning to Howard:

"Will you come? Senator Browning lives on one of the pleasantest streets

"So he does have to do errands!" Howard thought, as they left the house; and his mind reverted to the week before, when he had grumbled because his father asked him to carry a package to a distant part of the town.

As they met a gentleman, Howard noticed that his companion touched his cap, in addition to the customary greeting. In his impulsive fashion, he blurted out his surprise:

"That's a new fad, isn't it? Do you have to do that to every man you

"I don't have to do it at all," was the pleasant answer. "That is our minister, and it isn't much to pay him so slight a mark of respect, is it?"

"Oh, no," returned Howard; "only I never saw a fellow do it in Nickle-

It was not alone for the clergyman that Walter's little graceful act of courtesy was performed; other gentlemen received the same token of esteem. And when they passed some girls of about Howard's age, Walter's cap was doffed with as much deference as to ladies.

Howard commented silently; he did not wish further to display his ignorance in matters of etiquette. He was in the habit of lifting his hat when he met his teacher or those friends of his mother, whom he little knew. He had never deemed it necessary to take such trouble for ladies whom he saw frequently at his father's house; and as for giving his girl acquaintances more than a nod-why, he would have scouted the suggestion of such a thing. Yet he admitted to himself that these small acts seemed to add to the grace and dignity of Walter Chase.

"I'll teach the Nickleton boys some lessons in politeness," he thought. "But won't they stare!" and Howard almost laughed aloud.

The evening was passed at home,. and when Walter brought forward a book of pictures that he had taken during his summer vacation, Howard was obliged to add to the list of his host's accomplishments that of amateur photography.

"I'll have to be smart if I equal him in all these things," was the younger boy's mental comment, while he listened to graphic and amusing accounts of Walter's vacation journeys.

The elder folks were enjoying themselves in front of the blazing hearthfire, and the boys were still occupied with the protographs, when the small clock at the other end of the library proclaimed that the hour was nine.

A gentle voice made itself heard at the table where two heads bent over Montmorency Falls:

"Walter, good-night!-if Howard will excuse you. You know there is a lesson to prepare before school in the morning.'

Instantly the lad arose, and with a word and a smile for his companion, and a graceful good-night to his parents and their guests, he was gone.

"Well, he knows how to mind!" claimed Mr. Tyler, admiringly. "I've noticed it all day. How do you manage it, Mrs. Chase?"

The lady smiled.

"He has always been obedient from a little child," she responded.

"Yes," added Judge Chase, in his earnest, impressive way, "Walter is a good boy; he has never caused me one moment's bother."

"I would give a thousand dollars to

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be able to say that of my boy," returned Mr. Tyler.

Howard caught the soft "Sh!" from the lips of his mother, and saw the quick shrug of his father's broad shoulders as he involuntarily glanced that way.

The conversation by the fire-place passed to other topics, and Howard bent closely over the photographs. But the lad's thoughts were in a whirl, and, instead of the beautiful Canadian views, he seemed to see blazoned upon the pages:

"Walter is a good boy; he has never caused me one moment's bother." "I would give a thousand dollars to be able to say that of my boy."

And this was the youth who he had supposed was his own master!

Howard started violently. His mother stood at his elbow.

"Hadn't you better go to bed now," she said softly.

As he looked up into her eyes, he read the entreaty written there. Without a word, he closed the book, and with a somewhat awkward good-night he left the room.

He sat down by the side of his bed and began to unlace his shoes, but his mind was busy, and he toyed idly with the strings. He well knew why there had been that appealing look in his mother's eyes. He had always wanted to sit up a little longer than the hour when he was expected to retire, and often paid slight heed when his mother reminded him that it was bedtime. If he were reading and wished to finish a book or a chapter, he kept on. When obedience was enforced, he would go in dogged silence or with a sullen good-night.

"He has never caused me one moment's bother."

The words rang in Howard's ears, and he could not get rid of them. As he laid his head on his pillow, he said to himself that he would not sleep. But he was a healthy boy, and he was tired, and the next thing he knew his mother was telling him that it was

almost breakfast time.

That day was a round of enjoyment to Howard. In the morning he went driving with his mother and Mrs. Chase. He took a sight-seeing excursion with Walter in the afternoon; in the evening there was a small party for young folks, given in his honor. Every hour seemed to strengthen his admiration for Walter Chase; and, in truth, there could scarcely have been a more considerate, devoted host.

On the last night of Howard's stay in Gay Harbor the lads were return-

ing from the post-office, whither they had been to mail some letters for the judge, when the younger boy broke out suddenly with:

"I say, do you always like to mind as well as you seem to?"

Walter could not repress a little laugh at his companion's question; but he saw that Howard was desperately in earnest, and he checked his amusement, as he answered soberly:

"Not always, I'm afraid."

"Well, do you know, when I first came I fancied you had your own way in everything; that your father and mother let you do exactly as you pleased."

"I should be a pretty poor sort of a fellow if that were the case. I'm always sorry for a boy who has no one to advise him and to see that he does not go wrong; he is almost sure to make mistakes. It is a fortunate thing to have a father and mother like yours

Howard said nothing; he did not know what to say. His comrade went

"I tell you, it is good for a boy to have to do things that he doesn't want to do; it makes a man of him. Of course, our parents know best, though it is often hard to think so. Many a time when I have inwardly rebelled at their decision, and for weeks could not help feeling that they were wrong, I came to see my mistake, and have been so thankful that I did not have my own way. Haven't you found it so?"

"Yes," assented Howard, with a flushing face. He was gateful for the darkness.

"It is a great privilege," said Walter, slowly and in an undertone, as if to himself, "a great privilege."

"Privilege?"

"Yes-to be allowed to profit by the experience of those who are older and wiser and better than we. If you were traveling in a strange country, and had to go through a rough, mountainous region, full of snares and pitfalls and all sorts of dangers, wouldn't you consider it a great privilege to have some kind person, who knew every inch of the road, tell you just what course to take and how to avoid or surmount the perils of the journey?"

"Oh, yes!"

"Well, that is just the way of it. Our parents and teachers have been over the road we are traveling; they know every crook and corner of it, all its temptations and its dangers."

"I never thought about it like that at all, Walter."

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"But it is so. Father explained it all out to me when I was a little chap. I have never forgotten it."

Walter's night-key was in the lock. Howard felt that he ought to make some comment.

"That-is a pretty good idea!" he said.

"I think so," Walter responded, laying his hand on the other's shoulder.

"What has come over Howard!" exclaimed Mr. Tyler, after his son had performed some little service in a particularly prompt and pleasing manner. "He seems like a different boy since our visit to Gay Harbor."-Emma C. D'owl, in the Boys' World.

#### Autobiography of Sacajawea.

Sacajawea, the Bird-woman, belonged to the Sashone, or Snake Indians, a mountain tribe which, in the days of Lewis and Clark, was in danger of extermination at the hands of the Minnetarees, or Blackfeet. She had been taken captive when a child by these foes. When Lewis and Clark, coming up the Missouri, reached in their first winter the Mandans and Minnetarees, Sacajawea, a girl of 16, had shortly before became the slave and wife of Chabonneau, a French voyageur, who like many a waif of his race, had sunk far toward savagery, and was living with the wild men. Perhaps the best strike the captains made in preparing for their work was in engaging Chabonneau and Sacajawea to join the expedition. It was believed that he would be a useful interpreter, and that the Bird-woman, too, might be of some service when they reached the mountains from which she had come. When the party started westward in the spring of 1805, these two were included-the degenerate Frenchman and his poor little slave-wife, who, although she carried strapped to her back her papoose, born so lately as the preceding February, had no choice but to follow her lord.

From the first, however, the Birdwoman won upon the captains and their men by mild and engaging qualities, and as they worked their canoes up the Upper Missouri, she showed extraordinary efficiency. Though burdened with her babe, she labored with the men with paddle and tow-rope, and soon rendered important service.

It was through this heroic Indian girl those remotest wilds first heard of the greatness of Uncle Sam and the good things he meditated for his newly gained children of the forest. Nor was it solely as an interpreter that she was useful. As the party passed from tribe to tribe, who were always timorous at the first encounter, disposed to fly like frightened deer, the sight of Sacajawea with her papoose, riding with the captains, was reassuring. It could be no war-party if a squaw and her baby were among them.

Details of the expedition as given by the explorers themselves, show that in more than one instance this quickwitted, kind-hearted slave-wife averted a catastrophe that would have made the expedition end in a tragedy instead of a triumph that has gone ringing down the years.

History tells us that Sacajawea remained with Lewis and Clark and returned with the expedition as, in 1806. it worked its way back toward St. Louis. She was their guide and time and again proved the salvation of the expedition, and when she again arrived with the captains at the Minnetaree village from whence she started,

she and her husband Chebonneau, bade adieu to Lewis and Clark and remained at the point where they had enlisted.

There is one later mention of Sacajawea. In 1811, the traveler, Breckinridge, sailing up the Missouri, records a meeting with an old Frenchman and his wife, who he learned had crossed the continent with Lewis and Clark. The woman seemed fond of white people, tried to imitate civilized ways in her dress and manners, and in generaf appeared like one in whom an inspiration had been aroused for something higher than slavery. She was, says the traveler, in feeble health. Probably she died soon after, and there is no memorial of her. The river to which the captains gave her name bears now another designation. When and where she laid down her life, and what became of the baby, which, with its mother, had so strange an experience, no man can say.

Next to Jefferson, who sent them, it is Sacajawea who guided them, who deserves to be eulogized with Lewis and Clark.

## For the Little Ones

#### Starting.

They sit upon the barnyard fence,
The baby swallows in a row;
Four little dusky, silken things,
With soft bright eyes and close-shut
wings.
Their mother flutters to and fro;
The golden rod is all aglow;
The maple shows one scarlet leaf;
The time to stay is very brief.
They must be ready. For their sakes,
A constant twittering she makes,
"Try, try, my downy darlings, try
To spread your little wings and fly."

They sit unheeding on the fence,
The baby swallows in a row;
They see no cause of haste at all.
They look so innocent and small!
What will befall them when they go?
How much have they to learn to know?
All the strange mystery of flight
Above the sea is storm and night!
And all its rapture, circling round
A sky with sunset roses crowned.
What swallow hopes, and fears, and
cares.

cares.
And loves and dangers will be theirs!
But never more within the nest
They'll feel their mother's sheltering

breast.
Yet still that mother for their sakes,
This constant, troubled twittering makes:
"Try, try, my downy darlings, try
To spread your little wings and fly."
—Selected.

#### Shut-in Days.

Little Adelaide had been mildly sick for some days. Her dolls had all gotten tired, and some of them were sick, too, so they couldn't have tea-parties or go to church or Sunday-school.

"Mama, what can I do? I'm so tired doing nothing."

The mama got the scissors and brought out all the old magazines and told the little girl she might cut out all the pictures of furniture from the advertisements. When she had a lot of them neatly trimmed Mama went to the store-room and brought down a big piano catalogue. A large sheet of blank paper would have done quite as well, but this mama happened to have a piano catalogue. Then she made some smooth paste, such as mamas know how, and little children can learn how, to make.

They were ready for work, and they decided to furnish a hall. They drew, near the bottom of one of the big pages of the catalogue, two lines coming together at an angle, to show where the floor and walls foined, and two, parallel to-these, above to mark the outline of the ceiling, and one perpendicular line from one angle to the other. And le, there was a corner of

a room with a floor and walls. (Any picture of an interior would serve as a suggestion for these lines.) It was wonderful how the advertising pictures fitted in. They papered the walls and put carpet on the floor, and a strip of brown paper made the baseboards, and one of fancy paper the border. Then they put in the hall clock, a stair-case, fire-place, stand, and three chairs, and put on the wall a tiny picture of a stag's head with a narrow strip of gilt paper around it for a frame.

When this was done they were tired of pasting, so they planned the parlor with an elegant table, five chairs and a couch, fire-place, piano, piano-lamp, three pictures for the walls and a window with paper-lace curtains.

Adelaide still had pictures cut out for kitchen, dining-room, bath-room, library, and bedrooms. When her house is done it will be a very luxurious establishment, and she is learning a lot of things in doing it.

If any of you should try this some day when, for any reason, you can not play out of doors, among other things you will discover that in putting pictures on the walls, while their sides will be parallel with the sides of the page, the top and bottom must correspond to the slanting lines that make the outlines of floor and ceiling.

Adelaide found this kind of housefurnishing great fun, and there is a wonderful chance for the exercise of ingenuity in it, and there are artistic possibilities without limit.

Adelaide is a very little girl, but there is another way of furnishing a house that you can try if you are old enough to spell. One child says, "Let us furnish a hall; I will put in 'stairs.'" Another says, as quickly as possible, "I will put in a 'sofa';" taking care to use a word whose first letter is the same as the last letter of the one mentioned before. The next might be an "arm-chair;" fhen "rug," "glass," "stand," "door-mat," "tum-bler," "riding-whip," "pillow," etc. After that room is done, you can furnish the parlor, and so on through the house. It is fascinating work, and you will forget that you are sick, or, that it is raining out of doors.

If you get tired of the house, the window will furnish entertainment of the same sort. "I see 'rain'," says one. "Nest," says the next; "thrush," "hill," "lightning," "grass," "sand," "dove," "elm," "maple."

You can plant a vegetable garden, and put in it "potato," "okra," "aloe," "eggplant," "tomato," etc. Or you can make a flower garden or start a zoo in the same way.-L. A. M. B., in Ad-

#### No Pay, No Cure.

"Mister," said a little child to the herb-doctor, or "root- doctor," as they are sometimes called in some parts,-"Mister, mama says them las' pills you sold her didn't do no good, and she told me to ask you to send her some other kind this time," and saying which he placed the empty box on the uoctor's rickety desk.

"Lemme see," said the Doctor, as he adjusted his glasses and looked over his book. After inspecting the book for a few moments he looked up and said:

"Humph, humph! I see whar de trouble is. You tell yo' mammy, honey, dat she nevah paid fur dem las' got, an' tell her she can't spec' fur dem to do her no good 'cep'n dey's paid fur!"-Silas X. Floyd, in Lippincott's.

#### Cures Bone Spavin Quickly.

Seward, Neb., June 3, 1904.

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#### Little Boy Blue.

The little toy dog is covered with dust, But sturdy and staunch he stands; The little tin soldier is red with rust, And his musket molds in his hands. Time was when the little toy dog was

new, And the soldier was passing fair; But that was the time when Little Boy

Blue Kissed them and put them there.

"Now don't you go till I come," he said,
"And don't you make any noise;"
So toddling off to his trundle bed
He dreamt of the pretty toys.
And as he was dreaming an angel song
Awakened our Little Boy Blue.
Oh, the years are many, the years are long, But the little toy friends are true.

Aye, faithful to Little Boy Blue they

stand,
Each in the same old place,
Awaiting the touch of a little hand,
The smile of a little face;
And they wonder, as waiting these long
years through
In the dust of that little chair.
What has become of our Little Boy Blue
Since he kissed them and put them
there. Since there.

-Eugene Field.

A Sod-House.

#### Hardships of Pioneer Life in the Short-Grass Country.

[The following sketch will illustrate the pioneer history of Western Kansas. Many stories of just such privations and such pluck were told us during our stay in that progressive and rapidly developing part of the State.—Editor.]

With a family of eight small children the subjects of our narrative moved from Indiana to Graham County, Kansas.
Their means being scanty they

came West to make a home. "Poor

people have not room in the East to

These friends of ours managed to do

their farm work with a few rude tools

and an ox team, horses being very

scarce at that time. Remember, how-

ever, that Western Kansas was not

then one vast corn- or wheat-field but

a great prairie sea, with now and then

a small patch of what is known as

earned by herding sheep; the children

could do this. The oldest of these

The most of their scanty living was

"sod corn," and perhaps a garden.

children was per-

haps fourteen.

Think, ye busy

housewives of to-

day of doing all the

work for family of

ten in a 12-foot sod

room, lacking both

Only the chil-

dren that were old

enough to work

knew the comfort

of shoes in winter.

The girls, little

misses of 10 and 12,

were forced to

wear dresses made

floor and plaster.

raise and provide for a family."

he awoke and ate the two biscuits his mother had saved for him he was not satisfied; and with tears stealing down his face he looked up at his grandmother and said, "Grandma, when I get to be a man I am going to buy me a biscuit. Such was early life in Graham

County. Let us go with this family to Decatur County, where they secured a timber claim on a quartersection near one of the creeks.

They now had a home, which consisted of a bare room. Their first floor was a carpet laid over hay and nailed at the edges to the dirt floor. In this home sickness and death visited them, taking away a bright little girl.

Doctors were scarce and very hard to reach, it being many miles to the nearest town. (Now this place has rural mail and telephone.)

These children could go to school only when there was no work they could get to do; viz., when the weather was so bad they could not herd the stock.

Day after day these bright boys and girls stood on the prairie watching a herd of sheep or cattle with not even a book to help make the time pass. Thus passed their early life, and now they leave the valley for a homestead on the divide. Their fortunes are beginning to rise. The one room has grown to two rooms, partly floored and plastered. The family also is larger, consisting now of ten children. Thus they grow up, struggling through the failures and disappointments of early life in Decatur County, until now there is, in place of ten little

> ing mothers and fathers. That pioneer mother says: "She would not again go through with what she has endured for the State of Kansas.' Do you blame her?

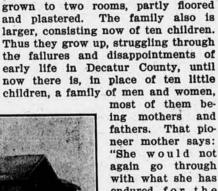
West, the others Kansas farmers. Three of the daughters are married and raising little

housetop.

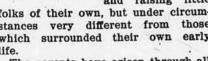
folks of their own, but under circumstances very different from those which surrounded their own early

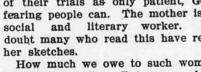
The parents have arisen through all of their trials as only patient, Godfearing people can. The mother is a social and literary worker. No doubt many who read this have read her sketches.

How much we owe to such women we can not realize. But we can show greater respect and more love for the mothers and fathers who endured the



Her four sons are well-to-do, respected citizens. one being a merchant in the far





trials and privations of pioneer life



of coarse denims, a A stout team is necessary for the long drives in the short-grass.

calico being quite beyond their means. Their living consisted chiefly of corn-bread and molasses, white bread being a great luxury, and a greater treat to those children than pie and cake are to Kansas children of to-day.

At one time flour had been obtained and biscuits made in honor of company. One of the little boys was asleep during the dinner hour; when

and made it possible for us to be what we are and to have what we have. N. M. B. God bless our pioneers.

Letter from the Short-Grass Country. I went out upon the hills one evening to take my leave of the shortgrass country which had been so kind to me. The silent evening shadows were just creeping over the gentle

hills. They came with slow step settling upon the patient prairies gently. Soon the whole earth would be enveloped in shadow, and only the stars twinkling in the far heavens would pierce the blackness. This time, half mournful, half mystic in its serene promise of to-morrow, were a fitting time for a long farewell.

I looked far off through the starshine over the distant hills and saw the shadowy outlines of the little houses, and thought, with very kindly feelings, of the cheerful, friendly people who were probably just sitting down to their evening meal. I thought of all the things they had endured, and of their long, long twenty years since they had first come, and of the prosperity they had at length won for themselves and the cheerful equinimity they had kept for themselves in both storm and sunshine, failure and success, and I said to myself as I walked back slowly through the peaceful dark, it is good to live in the shortgrass country.

The next day the fickle weather had changed, and I left the land of sunshine in a driving blizzard! It was a gray day—gray sky, gray earth, gray atmosphere. We were shrouded with a sunless cold, a blanket of grayness. But I had said my farewell to the land before, and always in my memory I shall think of it as I saw it then. Not so small thing as a blizzard can alter my thought of the short-grass country as a land of peace and seren-

#### The Best Society.

FLORENCE SHAW KELLOGG. "The town is getting full of what I call brick-yard aristocracy, which I would not wipe my feet upon. I never have to do anything to get into the best society. I was born there and have never been in any other kind," and my pompous little neighbor lifted his head still higher in his proud consciousness of his own superiority, while to me the thought came that, if one is really "born there," the fact need not be told in words; for life, thought and action, the daily "walk and conversation," will bear convincing testimony to that of which the word of assertion will always bring a doubt. True worth is always modest and retiring, and only that which is questionable is proclaimed from the

But what is the best society? What is the criterion by which to judge it? The "open sesame" by which the golden gates are opened? Is it the possession of wealth, represented by a bank account, or is it the true riches of mind and heart? Some way the little man's remarks brought a discord, a painful jarring in the midst of our pleasant, neighborly chat, and as we rode homeward in the hush of the sunset hour the thought came to me, Would the lowly Nazerine be admitted as one of the best society now any quicker than he was nineteen hundred years ago? Would not the cry still be raised, "He is the friend of the publican and the sinner," and many doors be closed against Him? Yet is not He in His glorified manhood our standard and example? Ought not the best society be such as rallies around the watchword of love He gave us? He knew no dividing lines save the inevitable ones that grow out of the heart-rather soul-life of those to whom He came in His blessed ministry. Need we do differently? Ought not true worth, character, honest striving for all that is of good report to be the test, and one be admitted to fellowship with the best if he shows that he is reaching after these things.

By what right may one man lift himself above another and say, "I am of the best-you are 'brick-yard aristocracy?"" Nature has her noblemen but this is not the badge they wear. The best society should only mean those who are striving most earnestly and persistently for true manhood and womanhood, and its doors should open easily to whomever would put on the armor of truth and live upwardly, its most worthy member being he who most closely imitates Christ in doing good to all and living in loving fellowship with whomsoever has need of him.

Fifty Years the Standard



Made from pure cream of tartar derived from grapes.

> PRICE BAKING POWDER CO. CH!CAGO.

Whether he be found in the luxurious parlors of the wealthy or in the humble homes of honest poverty, it matters not. "A man's a man for a' that," and as such let him have a kindly welcome to our homes while we each help the other on the road to true living, loving-and thus will it be "That the great light be clearer for our light, and the great soul be stronger for our soul."

Some Texan advice, given in Forest and Stream, is worth remembering: "My boy," said a Texas man to his son, who was starting out for an Eastern city, "let me tell you something which may be of help to you. You get up there and you'll see a heap of people who have got more money than you have—a heap of people who have got more brain than you have. and more success. Some of them may even be better-looking than you are. Don't you worry about that, and don't you be scared of anybody. Whenever you meet a man who allows he's your superior, you just look at him and say to yourself, After all, you're just folks. You want to remember for yourself, too, that you're just folks. After you have lived as long as I have, and have knocked around the world, you'll learn that that's all any one of us is-just

#### His Wish.

Fond Mother-You will be five years old to-morrow, Willie, and I want to give me a real birthday treat. Tell me what you would like better than anything else.

Willie (after thinking earnestly for five minutes)—Bring me a whole box of chocolate creams, mother, and ask Tommy Smith to come in any watch me eat 'em.-Youth.

#### Publisher's Paragraphs.

Publisher's Paragraphs.

One of the greatest fur- and woolhouses in the West, is the McMillan Fur and Wool Company, Minneapolis, Minn. They deal in furs, hides, sheep pelts, wool, deerskins, tallow and grease, beeswax and gingseng and seneca roots. They issue a circular which contains a great deal of information, not only in regard to the markets for the products in which they deal, but also in regard to how hides and pelts should be prepared for shipping. Their last circular states that the market for all classes of hides and skins is active and prices are high. They recommend that green hides and pelts be salted according to directions in the circular and shipped at once or at least as soon as the weather gets cool. The top prices quoted in the last circular are \$3.40 for green horse and mule hides; 10½ cents a pound for green, salted, heavy steer hides; 11% cents for fiint Indian trimmed hides; with others in proportion. Tallow is quoted at ½ cents in cakes, or 4½ cents in barrels. Nebraska and Kansas unwashed wool is quoted up to 22½ cents, or 23 cents for tub-washed, and mohair is quoted up to 30 cents for the best. Write them for this circular and price-list. It is interesting reading. reading.

The Right Road.

The Chicago Great Western Railway offers superior service and lowest rates to any one contemplating a trip to Chicago, St. Paul, Minneapolis, or Des Moines. For further information apply to G, W. Lincoln, T. P. A., 7 West the St., Kansas City, Mo.

## Club Department

OFFICERS OF THE STATE FEDERATION OF WOMEN'S CLUBS.

President. Mrs. Cora G. Lewis, Kinsley
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Mutual Improvement Club, Carbondale, Osage County (1895). Give and Get Good Club, Berryton, Shawnee County (1902). Woman's Literary Club, Osborne, Osborne County

Woman's Literary Club, Osborne, Osborne County 1902).
Woman's Club, Logan, Phillips County (1902).
Domestic Science Club, Osage, Osage County (1888).
Ladies' Crescent Club, Tully, Rawlins County (1902).
Ladies' Social Society No. 1, Minneapolis, Ottawa County (1888).
Chalitso Club, Highland Park, Shawnee County (1902).

Chairso Club, Highesterg, Phillips County (1902).
Cultus Club, Phillipsburg, Phillips County (1902).
Literatae Club, Ford, Ford County (1903).
Sabean Club, Mission Center, Shawnee County,
Route 2 (1899).
Star Valley Woman's Club, Iola, Allen County

West Side Forestry Club, Topeka, Shawnee County ty-Route 8, (1903). Fortnight Club, Grant Township, Reno County (1903).

(1903).
Progressive Society, Rosalia, Butler County (1903).
Pleasant Hour Club, Wakarusa Township, Douglas County (1899).
The Lady Farmers' Institute, Marysville, Marshall County (1902).
The Woman's Progressive Club, Anthony, Harper County.

The Woman's Progressive Club, Anthony, Harper County.

Taka Embroidery Club, Madison, Greenwood County (1902).

Mutual Improvement Club, Vermillion, Marshall County (1903).

[All communications for the Club Department should be directed to Miss Ruth Cowgill, Editor Club Department.]

The ladies of Vermillion and vicin-

ity organized the Mutual Improvement Club October, 1903, each member paying a yearly membership fee of \$1. This, together with books and cash donation, was used to start a public library. The club membership numbers seventeen, has a printed pamphlet form of program for the year, and meets with the members in alphabetical order semi-monthly. They have 287 volumes in the library and many periodicals in paper and magazine form. Club members, serving in alphabetical order, keep the library open two afternoons of each week. The library is well patronized. The secretary is Lucy Curtis.

ELLA . C. ACKER.

The Mutual Improvement Club of Marshall County, comes to us this week with a most interesting account of its history and of its accomplishments in one short year. The founding of a library is a thing to be proud of, and they have surely had unusual success. We would like to know what kind of meeting they have and what they do there. I hope we shall hear further from them. Meanwhile, their name is added to our Club Roll.

#### History Program. - Were Kansas There Two Sides to the Kansas Question?

Roll-call—Current events in Kansas. I. The pro-slavery view and its methods.

II. It might have been.

III. The free-state view and its pol-

IV.After half a century.

V. Discussion—Was it possible for a man honestly to take the pro-slavery side?

The responses to roll-call, on current events in Kansas, ought to be a most interesting and instructive part of the program.

The paper on the pro-slavery view should be prepared with great faithfulness. It is perhaps hard for the average Kansan to put himself in the fre ae of mind to consider impartially this subject. Yet it will surely be helpful and interesting to do so.

The second paper requires some little imagination. To suppose the other side had won and to fancy what would have been Kansas history in that event, will be the duty of the writer of the paper. It will certainly be a delightful part of the program.

The third topic is an easier one than the first one, because it will call for merely the expression of the opinion of the present-day Kansan.

The fourth topic is merely a brief and spirited review of the most salient points of our State's history during the fifty years of its life, especially after the first three years, when

it became evident that the free-state policy was to be adopted. Both this paper and the one on topic II should deal principally with the war, Kansas' conduct therein, and the results.

The discussion of topic V should be led by one member, and the rest of the club should continue it.

Household Program.—The Christmastide.

Roll-call—Christmas sentiments.

I. Reading.

II. The true significance of Christ-

III. How to celebrate Christmaspractical hints, etc.

IV. A Christmas story. V. Song by the club.

After the roll-call, this Christmas program should open with the reading of a poem appropriate to the occasion. If no other one seems better, the following, by James Whitcomb Riley, will be very fitting:

A FEEL IN THE CHRIS'MAS AIR. "Theys a kind of feel in the air ,to me. When the Chris'mas-times sets in, That's about as much of a mystery As ever I've run a'gin!—

"Is it the racket the children raise?— W'y, no!—God bless 'em!—no! Is it the eyes and cheeks ablaze— Like my own wuz, long ago?-

"Is it the bleat o' the whistle, and beat
O' the little toy drum and blare
O' the horn? No! No!—it is jest the The sad, sweet feel in the air."

The paper on the second topic will treat of a subject already much talked of, yet one to which our attention needs often calling. The tendency is too much toward making of this holy time an occasion of worry and weariness, of soulless giving and thankless receiving.

The practical paper which is to follow this will be very welcome to the mothers who are planning for the occasion. It may be well to have discussion of the subject by the club after the paper, for almost every one will have ideas on the subject.

The Christmas story may be either original or selected. It is better to have original work as much as possible; even though it may not be quite so well written as one which could be selected. The one written for the occasion by your own club member will be more enjoyable.

One of the grand old Christmas hymns will be delightful for closing the afternoon, and if the club as a whole does not feel inclined to sing, perhaps there will be one member who will favor them with an old song.

#### Michigan Demands Attention.

Michigan Demands Attention.

The progress made by Michigan in every branch of industry is attracting widespread attention. Home-seekers see in that State their future and are going there to cast in their lot with the people, who by their ability, thrift and energy, have placed their State in the high position it now occupies. Not only does Michigan rank among the foremost States in commerce, but also in agriculture. It possesses fruit-growing, farming and stock-raising land that is the "apple of the eye" of the home-seeker.

The Michigan Land Association's offer of land in The Cadillac Tract at \$10 to \$15 per acre is of general interest. This land is located in the heart of the fruit beit and a rich farming and stock-raising district.

"Luss is an ideal location. The land is

trict.

'Luis is an ideal location. The land is very productive and yields fine crops that command the highest prices. The climate is uniform and excellent. Splendid water, free gravel pike roads, churches, schools, and one-half to six miles from a busy city of 8,000 inhabitants.

Mr. S. S. Thorpe, district manager, The Michigan Land Association. 16 Webber Building, Cadillac, Mich., says: "There is no other location where every condition is so conducive to health and prosperity as The Cadillac Tract."

is so conducive to health and prosperity as The Cadillac Tract."

Mr. Thorpe has a wide circle of admirers. His integrity and business ability have won for him an unshakable position in the commercial world.

Mr. Thorpe will send full particulars of The Cadillac Tract to any one who is interested.

We call the attention of our readers to the advertisement of Mermod & Jaccard Jewelry Co., St. Louis, which appears in this issue. They are one of the oldest established jewelry houses in the United States and have the best of reputation. Their goods are always reliable and guaranteed in every respect. We have known them for a great many years and take pleasure in saying to our subscribers and readers that they need have no hesitancy whatever in dealing with Mermod & Jaccard Jewelry Co., because they will always receive satisfaction and obtain the very best goods manufactured.

They offer their very large and beautifully illustrated catalogue free to those who ask for it, and we suggest that if you are thinking of making holiday presents, that you send for one of their handsome catalogues before making your purchases.

## Did You Receive My Letter

Telling all about your disease and How you can be cured?

## If Not—Write At Once

Telling me your principal symptoms, age and sex, and I will diagnose your case and send you a course of

## **Home Treatment Absolutely Free**

That you may rest assured will put an end to your pains and aches.

## My New Method of Healing

Does away with useless drugs and medicines, and cures in an almost miraculous manner diseases pronounced incurable by physicians. In fact, with it there are

#### No Diseases I May **Not Gure**

However severe, chronic or long standing. It has been successfully tested in thousands of cases and cannot fail to do all I claim for it. That is the reason I am willing to send you treatment, and give you my services and medical advice absolutely free of charge. I mean this offer especially for those who have tried doctors, druggists, patent medicines and other so-called remedies without receiving benefit. I prefer cases that have been given up as hopeless by the medical profession. Write now before looking at the rest of the paper. The stories CAN WAIT—your health cannot. Here is what a few of those I have cured say of my treatment.

"I am entirely cured and never have the slightest return of any of those troubles. You have done what doctor after doctor, and all their medicines failed to do, and I cannot be grateful enough." Jas. Anderson, West Bay City, Mich.

"You literally saved me from the grave."
Mrs. C. M. Weston, Barnegat, N. J.

"The doctors said they could do no more
for me unless they used the knife..... Your
treatment not only made me better—it cured
me entirely. I think you are one-of the greatest blessings God has given to humanity."
Mrs. Lois Pierce, Jonesboro, Ind.

"I have taken medicines from a great many doctors, and tried a great deal of patent medicines, but I am glad to say that you, under our Blessea Master, have cured me when all elso failed. I had stomach, liver and kidney disease, asthma and bronchitis, but you cured them all." Mrs. B. J. Garrett, Rafter, Tenn.

"Thank God I found you just in time to save my life." J. S. Bunting, Savannah, Ga. "Your efforts must be accompanied by the Holy Spirit to accomplish such miraculous cures. I know and believe that there is nothing to equal your treatment for the release of suf-fering ones from pains, weakness and dis-case. I wish all suffering ones knew of its power to heal as I do. When your treatment comes in contact with disease, illness must give way to health." Rev. Samuel Sutton, Williamsburg. Ky.

"Hereafter I am through with quack doctors and their useless drugs, for they are not worth a pinch of salt compared with your treatment. You have driven the disease out of my body as you promised. I feel that you have saved my life." C.S. Harrell, Cato, Ark.

"If curing cancer of the stomach and other diseases that were the matter with me—well if this isn't a miracle then I do not know what to call it. You surely saved me from death, and I do advise all sufferers to apply to Dr. Hadley." Jos. R. Stewart, Camden, N. J.

"I firmly believe that I would be in my grave now if it was not for Dr. Hadley's wonderful treatment." Miss J. L. Pulley, Oberlin, Ohio.

"After taking treatment but two weeks I am thoroughly cured." Mrs E. Seamunds, Darlington, Mo.

"Doctors did me no good and their pre-scriptions less, but you cured me." Mrs. Hiram Thoope, Shekomoko, N. Y.

"I have tried ever so many prescriptions, but got nothing to help me until I wrote to you." Mrs. S. F. Choane, Abilene, Texas.

If you want free treatment simply write to

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Along its line are the finest lands, suited for growing small grain, corn, flax, cotton; for commercial apple and peach orchards, for other fruits and berries; for commercial cantaloupe, potato, tomato and general truck farms; for sugar cane and rice cultivation; for merchantable timber; for raising horses, mules, cattle, hogs, sheep, poultry and Angora goats, at prices ranging from

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to twenty-five dollars or more per acre. Cheap round-trip, homeseekers and one-way colonist tickets on sale first and third Tuesdays of each month. Write for a copy of "CURRENT EVENTS," published by the

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## SOME FEATURES OF THE TARIFF QUESTION.

(Continued from page 1178.)

than elsewhere. But the unexpected has happened; for, while we are suil exporting a little wheat and flour, there are great mills near our northern line whose managers would very much like to buy Canadian wheat. Wheat is about 23 cents lower north of the line than south of it. But the 25-cent tariff on wheat looms up without beauty in the eye of the Minneapolis miller. He is likely to see to it that a proposition for lowering this bar to his profits shall be introduced and strongly advocated in Congress. Wheat-growers in the United States in general, especially those tributary to the great Northern mills, are interested in maintaining the present rates. They are likely to be seconded by the influence of all millers whose remoteness from the Canadian fields is such that they can not profit by importing. Indeed, the abrogation of the tariff on wheat would give the Northern miller at least the advantage of the difference in the freight on wheat from Canada to Minneapolis and to points further from the line. Kansas and Missouri millers are interested with the farmers in maintaining the tariff on wheat. Congress should be made to feel the weight of these interests.

Among the arguments likely to be used to quiet the opposition of farmers and centrally located millers to the proposed reduction, it will doubtless be suggested that the present condition as to shortage of wheat is only temporary so that the removal of this 25-cent tariff should not be regarded as a serious matter. On this point the most' interested outside observer is Great Britain, whose breadstuffs have been largely supplied from the United States. In a serious review of the situation the London Times of November 7 said:

"The reduction of wheat exports [from the United States] in the fiscal year 1904 can not be accounted for by a shortage in production, since the crop of 1903 was larger than the average of the last five years, and—with the exceptions of 1898, 1901, and 1902—was the largest on record. The wheat crop of 1903 was but 33 million

bushels below that of 1902, whilst the exports of the fiscal year ended June 30, 1904, fell 82 million bushels below those of 1903, the reduction of exports being thus much greater than the crop

"The reduction in exports appears to be due to greatly increased home consumption, owing to the enlarged market created by a rapidly growing population, whilst there is the further fact that the wheat-growing countries other than the United States had an unusually large crop in 1903, and thus, to some extent, reduced the European demand for American wheat and undersold it. From a detailed study of the figures it would appear that,

#### The Cadillac Tract \$10.00 to \$15.00 Per Acre

in the soul of the fruit belt, a productive farming and stock-raising district, in the grand State of Michigan. Every advantage of modern farming. Unlimited opportunities

portunities.
John M. Stahl, secretary Farmers' National Congress, has purchosed some of this land. Fourteen practical farmers from Indiana secured over 2,000 acres. Dozens of others have bought. You will, too, when you investigate.

#### Read

H. S. Williams, formerly of Augusta County, Virginia, says: "I am thoroughly satisfied that I have bettered myself by settling on land in THE CADILLAC TRACT."

Noah C. Bare, formerly of Elkhart County, Indiana, says: "I found every condition in THE CADILLAC TRACT just as represented."

A postal will bring you an illustrated book of detailed information, testimonials, maps, etc., and particulars about excursions, a number of which are being run to THE CADILLAC TRACT at greatly reduced rates.

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If you buy not less than eighty acres will refund your railroad fare.

## s. s. THORPE,

16 Webber Building, Cadillac, Mich. District Agent Michigan Land Associa-

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whilst the production has remained stationary on the whole, the quantity retained for home consumption has about doubled, whilst the proportion of domestic wheat available for export has dropped steadily from 40 per cent of the crop to 19 per cent [of the 1903 crop].

"This state of affairs is not transitory; it is an index of future conditions. The wheat crop of the United States will be more and more consumed at home. The rapidly increasing population not only demands more food for man and live stock, but is raising prices. As the country settles up, land increases in value, and it does not pay to grow wheat on land worth a hundred dollars an acre; the land can be used more profitably in other ways. The acreage under wheat will, therefore, not increase; on the contrary, it may be expected to diminish, since in many cases lands have been exhausted by continued wheatcropping under a system which takes all the fertility out of the soil without putting anything back. The question of the abandonment of wheat-growing or the resort to fertilizers is, in 99 cases out of a hundred, answered by abandonment and change of cultivation. And, as prices rise, the home market becomes relatively and actually more valuable."

The American wheat farmers' interest in the tariff is likely to be greater and more direct from this time forward than at any time in the past.

It has been charged and admitted that some American trust-made manufactories are sold at lower prices abroad than in this country. It is necessary to the making of sales in the open markets of the world to make prices as low as those of any other country. In the protected market of this country outside competition may be disregarded if only the domestic price is not made greater than the foreign price plus the duty. In the case of those trusts which have acquired a practical monopoly of the home market there is no home competition, so that there is practically no necessity of selling at a less price than the foreign price plus the duty. Some of the great trusts of the United States have found need of a foreign market to prevent the accumulation of surplus stocks. They have preferred not to lower prices in the home market and thereby stimulate consumption to the point of taking the entire product, but have maintained prices to the home consumer and lowered them to the foreigner sufficiently to undersell the foreign producer. An instance in which the manufacturer sells to the foreigner at a lower price than to the American consumer is presented in connection with the case of the Northern millers. By giving bond to export the entire product made from imported wheat they are excused from paying duty. This enables the millers to sell the flour and other products cheaper in Canada than in this country. The millers find it difficult to export and sell the bran, the foreign demand being less active than the domestic use for this product. They are, therefore, making specious arguments in favor of such modification of the bonding law as will enable them to sell in this country the bran from imported wheat, without subjecting the wheat to pay duty.

It is easily seen that the complications attendant upon the artificial conditions produced by the tariff are very great. Every attempt at modification runs counter to somebody's interests. There is, however, a prevailing disposition to reduce the protection to monopolies and on the raw materials used by manufacturers. Inasmuch as farmers' and miners' finished products are the raw materials for some factories, and the finished products of some factories are the raw materials for still other factories, the contest seems liable to become a contention for special favors against the preservation of special favors in all cases except in those affecting monopolies

only in which there is likely to be a union of the monopolists on the one side and the use of their entrenched positions with consummate skill under trained leaders on the one hand against an organizing force of the general public on the other hand. The general public is approaching the opinion that there must be either such competition as will prevent monopoly, or that the socialists' contention for no competition is the alternative, Those responsible for the policies of the near future are not likely to admit a readiness to adopt socialism. The tariff complications are, therefore, likely to thicken with the progress of the effort to restore competition to its ancient place as a regulator of prices and profits. In the contest to ensue it is important for the farming as well as other interests to secure due attention to their problems as affected by tariff changes.

#### ABATING THE HUNTING NUI-SANCE.

The annoyance of having the farm run over by hunters, together with the attendant dangers from accidental shots and from fires, to say nothing of the insolence to which farmers are sometimes subjected, constitutes the question of abating this nuisance an important one to many who live in the vicinity of towns. The evil has been endured in an aggravated form near Topeka until a remedy became a necessity. Partial and temporary relief was obtained in some cases by the acquisition of dogs of such breeds as attend to business. Some of these were poisoned and poisoned bait was eaten by pigs and chickens, entailing severe losses.

Last week some of the suffering farmers were commissioned as deputy sheriffs. They promptly arrested the intruders and took away their guns. Prosecutions will follow until the festive nimrods shall have learned to respect the rights of farmers to immunity from trespass.

#### BLOCKS OF TWO.

The regular subscription price of the Kansas Farmer is one dollar a year. That it is worth the money is attested by the fact that thousands have for many years been paying the price and found it profitable. But the publishers have determined to make it possible to receive the paper at half price. While the subscription price will remain at one dollar per year, every old subscriber is authorized to send his own renewal for one year and one new subscription for one year with one dollar to pay for both. In like manner two new subscribers will be entered, both for one year, for one dollar. Address, Kansas Farmer Company, Topeka, Kans.

Special to Our Old Subscribers Only.

Any of our old subscribers who will send us two NEW SUBSCRIPTIONS at the introductory rate of fifty cents each, will receive any one of the following publications as the old subscribers may choose, viz., "Woman's Magazine," "Western Swine Breeder," "Vick's Family Magazine," "Blooded Stock," "Poultry Gazette," "Dairy and Creamery," or "Wool Markets and Sheep.

#### THE FANNING-MILL.

It used to be a saying among the best farmers of Ohio that the most useful machine that could be brought to a farm was a fanning-mill. In those days it was necessary to reclean the grain as it came from the thrasher. But the most important use of the fanning-mill was for cleaning seed. Carelessness in this regard has resulted in introducing upon many farms weeds which years of toil have not eradicated. In preparing alfalfa-, clover-, and grass-seeds for sowing, the utmost care is necessary. If foul seeds are sown with these there is in many cases no opportunity to destroy the noxious weeds they produce without destroying

the stand of grass or clover. In all seeds that are sown it is important to use the best. Light seeds produce weakly plants which may live to interfere with their more vigorous neighbors but they are never profitable. As an improver of wheat and oats the fanning-mill deserves to be ranked as a scientific plant-breeder. Blow out the light grains and sow the heavy for a series of years and permanent improvement in the yield and quality of the product results. It pays.

#### NATIONAL LIVE-STOCK ASSOCIA-TION,

The eighth annual convention of the National Live-Stock Association is called to meet in Denver, Col., on January 10-14, 1905, at which time a vast amount of very important business will be presented for action. On Monday, January 9, the National Wool-Growers' Association will hold its annual meeting at the same place, and the Inter-State Cattle-Growers' Association will also hold its meeting in Denver during the week.

# Miscellany

Kansas Farm Products for 1904.

The Kansas State Board of Agriculture in its summary of the agricultural, horticultural, and live-stock products of Kansas—yields, numbers and values—for the year 1904, says:

Winter Wheat.—The total yield of winter wheat was 64,793,399 bushels. Its home value is given as \$51,149,917. The area sown, as returned by assessors in March, was 5,816,495 acres, and on all this the average yield per acre was slightly over 11 bushels. While the aggregate yield is less by 30 per cent than that of 1903 its total value is nearly as great as that of last year's yield, which was the most valuable wheat crop ever produced in the State, the average, home selling-price for the past twelve months having been higher than for any year since 1890.

Of the State's annual wheat production this year's output ranks fifth in total yield. Four of the bulkiest crops in the State's history have been grown in the past five years, as shown by the following table (which includes the insignificant proportion of spring wheat grown), along with their values:

******	ac 810	,,,	,,	 ,
1900		77,339,091		 \$41,974,14
1901		90,333,095		 50,610,050
				29,139,49
1903		94,041,902		 52,426,35
1904		65.141.629		 51,409,25

The total production for these five years has been 381,505,000 bushels, worth \$225,559,750, or an average annual output of 76,301,000 bushels, worth \$45,111,950—a record without a parallel.

This year the largest yields per acre were in the central third of the State, as usual, and the output of the leading sixteen counties in winter wheat, amounting to slightly over 56 per cent of the year's crop is as follows, the counties being named according to their rank in yield:

Sumner		 	.3,827,642
Reno		 	.3,518,235
Barton		 	.3,414,671
Harper		 	.2,911,080
Stafford		 	.2,757,488
Pratt		 	.2,557,242
Rice		 	.2,251,078
Sedgwick		 	1 015 212
Kingman Russell	• • • •	 	1 860 157
McPherson		 	1 733 370
Pawnee		 	1,627,430
Ls			.1.552.977
Ellsworth		 	.1,520,736
Saline		 	.1.500.912
Rush		 	.1,475,472

The area reported as probably sown for next year's crop is 5,906,272 acres, an increase from last year of 1.5 per cent, or 89,777 acres. Seventy-five counties report increases, and among those showing decreases are several of the leading wheat-producers, a condition attributable in the main to unseasonable dryness in those particular localities.

On the whole, soil- and weather-conditions since seeding have been fairly

## Allen's Lung Balsam will positively break up a deep, racking cough past relief by other means.

favorable, yet in various sections the situation is unmistakably not promising, owing to quite continuous dry weather; a notable instance of this is afforded by Sumner County which reports the lowest average, or but 61-100 representing a good stand and wholesome condition. However, on the same basis, the general average condition for the State is 88. Twentyfive counties report averages of 100 or over, and as a rule the better conditions exist in the Northern and Western parts of the State. Hessian flies are noticed in occasional fields but not in such numbers as to cause any serious apprehension.

Corn.-The corn crop amounts to 132,021,774 bushels, which is 37,337,-995 bushels less than one year ago; its value is \$50,713,955. The returns this year present an unusual circumstance in that by far the larger yields per acre of corn are almost invariably found in the central third of the State popularly referred to as "the wheat belt." In aggregate yield Jewell leads with 6,400,680 bushels, Smith coming next with 5,819,485 bushels, and Phillips third with 4,954,212 bushels. The counties having the largest average yields per acre are Phillips with 38 bushels and Smith and Rooks with 35 bushels each.

Oats.-Yield, 21,613,357 bushels, worth \$6,872,890.

Irish Potatoes.—On a diminished area was produced a crop larger than last year's by 21 per cent, aggregating

6,078,391 bushels, worth \$3,034,120. Sorghums for Grain and Forage.-There has been a decrease in acreage of the chief varieties of sorghums, while Jerusalem corn and milo maize show an increase; the combined value of these is \$8,357,776.

Hay and Live Stock.-Tame and prairie hays have been fully up to the average in quantity and quality. Some of the counties with the heavier corn yields report larger supplies of hogs than one year ago, and all live stock seem to be healthy and comparatively free from disease.

KANSAS' CROPS AND PRODUCTS IN 1904. The yields and values of the year's crops and products are as follows:

Winter and spring	
wheat, bu 65,141,629	\$51,409,255
Carry 129 021 774	50,713,955
Corn	6,872,890
Oats	
Rye 1,110,378	635,585
Barley 5,344,422	1,674,714
	2,709
The state of the s	2,100
Irish and sweet pota-	
toes 6,495,777	3,326,151
Castor beans 2,925	2,925
Cotton, lbs 59,625	4,770
Flax, bu	337,410
Hemp. lbs 20,600	1,030
	1,440
D 100 100 100 100 100 100 100 100 100 10	371,049
Tobacco, lbs 14,400 Broom-corn, lbs 12,133,535	011,040
Millet and Hungarian	
tons	1,600,444
Sorghum for syrup, gal 1,135,613	411,243
	111,010
Sorghum, Kafir-corn,	
milo, maize and	
Jerusalem corn for	
	8,357,776
Torage	0,001,110
10 me hay, tons 1,598,628	8,792,454
Prairie hay, tons 1,325,637	4,910,464
Wool clip, lbs 504,020	80,643
	7,793,076
Cheese, butter and milk	1,133,010
Poultry and eggs sold.	7,551,871
Animals slaughtered or	
sold for alguarator	51,846,671
Sold for slaughter	01,010,011
Horticultural and gar-	
den products and	200000000000000000000000000000000000000
Wine	1.252.854
Honey and beeswax, lbs 1,422,056	192,677
Tioney and beeswax, ibs 1,422,000	146,211
Wood marketed	140,211
Total value	\$208,290,267
NUMBERS AND VALUES (	OF LIVE
STOCK.	
Number	
Horses	\$62,668,500
Moles and asses 103,436	9,050,650
Miles and asses 100,400	
Milch cows	19,817,800
CHIEF CATTLE Z. INL. D4Z	51,014,527
St.een 167.721	503.163
Swine 0 107 400	15,956,115
Swine	10,000,110

#### Grand total.....\$367,301,022 Epsom Salts for Pigs.

Total value.....\$159,010,755

EDITOR KANSAS FARMER:-I had a little experience with one of our young gilts not many weeks ago. We had eighteen gilts, and as I went out to feed them I noticed that one of them lay off by itself. I threw in some feed and she would not get up. I gave them some slop, which consisted of shorts and salt and water, but she did not move. I drove her to the trough, and she ate, but not so greedily as the others. She looked dumpish for a

week. Then I mixed her some salts in fresh milk but she even refused to eat that. So we gave her a drench of a teaspoonful of Epsom salts in half a pint of fresh milk and turned her loose. In the evening when feedingtime came she came up to the trough, and I gave her another teaspoonful of salts in a pint of milk, which she took herself. The next day I gave her another light dose, and she picked up right along and is now as fat as any of them. We treat our hogs occasionally to a dose of salts and find it a very good thing for them.

This may be of some use to our brother and sister breeders, as we never are too old to learn. I think it a good plan if all of the readers of the KANSAS FARMER would give a little of their experience.

MRS. HENRY SHRADER. Chautauqua County.

Kansas Historical Society-Program of Annual Meeting.

Meeting of the board of directors, 1.30 p. m., December 6, 1904, at the State House, Topeka. The board will meet for the transaction of ordinary business.

AFTERNOON MEETING.

General business.

Reading of papers: "The Alliance Movement in Kansas with Relation to the Origin of the People's Party," W. F. Rightmire, Topeka; "Poziglione," S. W. Brewster, Chanute; "The Saline River Country in 1859," J. R. Mead, Wichita: "The Victory of the Plow," W. D. Street, Oberlin.

EVENING MEETING, 7.30 P. M.

Invocation, Rev. H. D. Fisher, D. D. Election of thirty-three members of the board of directors.

Historical addresses:: "Early Navigation of the Missouri River-Rise and Fall of Steamboating," Phil. E. Chappell, Kansas City, Mo.; "Was the English Bill a Bribe?" Charles Harker Rhodes, Wellington; "Samual A. Kingman," Joseph G. Waters, Topeka.

On the adjournment of the annual meeting, the board of directors will convene for the election of officers for the ensuing year.

PAPERS IN HAND OR PROMISED.

The Administration of John P. St. John, by I. O. Pickering-The Administration of George W. Glick-The Administration of John W. Leedy, by Ed. C. Little-Navigation of the Kansas River, by Albert R. Green-The Railroad Convention of 1860, by George W. Glick-Twentieth Kansas Boys Killed in Battle, by Joseph G. Waters, Topeka—The Story of a Wheat-Field in 1875, by T. C. Henry-Oregon Emigration Through Kansas Sixty Years Ago-The Story of the Eleventh Kansas Regiment, by S. H. Fairfield-Border War: When, Where? by H. E. Palmer, Omaha-Fort Zarah, by Julia A. Chase—Reminiscences of the Indian War of 1868, by Ben. Jenness-Bushwhacker Raids on Gardner, by Stephen J. Wilson-Voting for Lincoln in Missouri in 1860, by D. P. Hougland, Olathe-A Southerner at the Battle of Franklin (Kan.), 1856, by F. H. Sapp -Battle of Shiloh, by Leander Stillwell, Erie-A Trip to Santa Fe Seventy-Seven Years Ago, by Milton E. Bryan—Kaw and Kansas: a Monograph, by Robert Hay-Experience in 1855 and 1856 in Kansas, by R. M. Ainsworth-The Drouth of 1860, by George W. Glick-Company A, Eleventh Kansas, in Price Raid, by H. E. Palmer - Pioneer City Marshals: Thomas James Smith and Thomas Allen Cullinan-The Cheyenne Raid of 1068, by John Madden-John Brown Never in Breckinridge County, Kansas Territory, by W. E. Connelley-E. A. Ogden's Letter to Joseph Lane in 1853, Suggesting Present Lines of Road to Oregon- Semicentennial Addresses of William H. Taft, Secretary of War, Willis J. Bailey, T. F. Garver, George R. Peck, and Geo. W. Martin, at Topeka and Lawrence-Incidents of the Retreat of Quantrill from Lawrence, by Albert R. Greene.

Samuel J. Crawford, third Governor of the State, 1866 to 1870, has promised a paper on the claims of Kansas against the General Government, and also a general historical paper of a military and political nature.

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### The Beterinarian §

We cordially invite our readers to consult as whenever they desire any information in regard to sick or lame animals, and thus assist us in making this department one of the interesting features of the Kansas Farmer. Give age, color and sex of animal, stating symptoms accurately, of how long standing, and what treatment, if any, has been resorted to. All replies through this column are free. In order to receive a prompt reply, all letters for this department should give the inquirer's postoffice, should be signed with his full name, and should be addressed to the Veterinary Department. Kansas Farmer, Topeka, Kans., or Dr. C. L. Barnes, Manhattan, Kans.

Pony Out of Condition.—I bought a mare pony last August and thought she was all right then; but in a short time she began to gain in flesh, her bag on the left side began to swell and broke and discharged and has never healed up. It swells, then breaks and discharges, and seems to hurt her. She is not in as good flesh now as she was a few weeks ago. She eats well. She raised a colt and I think it was weaned in the early part of the summer. What can I do for her?

Heman, Okla.

Answer.-It will probably be well to poultice the pony's bag with hot water and try to take the inflamma-tion out of it. When it breaks, syringe out the part that is discharging with peroxide of hydrogen once daily. If this treatment is not successful in bringing about the desired results, please let us know.

Stifles Out.—I have a 2-year-old filly that is in the habit of throwing her stifles out. The first attack was last August. I called a veterinarian and he blistered it. She did all right for a few days but soon began the same old trick again, and she is not able to get around more than half the time. Can you give me any information on this mafter? JAS. P.

Beloit, Kans.

Answer.—Your treatment for the filly I believe to be all right, and would advise you to blister the stifle again, giving your filly absolute rest, keeping the affected leg perfectly quiet.

Abortion.—I have two cows that lost their calves by abortion. They were about six months along. One would have been fresh in November, the other in January. I have no idea what the cause was. Did not know there was anything the matter with them until the day they aborted. Cows have been running on pasture all summer and fall. I have fed some sorghum, hay and corn the past four or five weeks. I have been told that it was a disease and would run through the herd, and would like to know what to do to stop it. One of the cows had something wrong with her udder; it began swelling or caking in the right hind part of the udder about a year ago. It came on gradually, the flow of milk decreasing as the cake enlarged; she gives very little milk out of the teat. The cake is not getting larger the last six months. It is caked from the lower part of the udder and extends up the back part near to the top, just one quarter being affected. The cake seems to be deep-seated, as the outside of the hide is loose and pliable. I have used a "scattering" liniment and have also used raw turpentine, at different times until it ZENOLEUM

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blistered the udder, but it had no effect in reducing the cake. R. O. E.

Lenora, Kans.

Under separate cover we send you a press bulletin on contagious abortion; it may give you some hints as to the cause of the trouble with your cows. In regard to the cow with the caked bag, I would try poulticing with bran or oil-meal, keeping the poultices as hot as the cow can bear it. At night, after finishing your work, take the poultice off the cow, and rub into the udder, thoroughly, over the affected quarter, poke-root tincture. If you can not get the tincture of poke-root, get the fluid extract. It will be well to cover the udder with a sack or blanket so as not to cool the bag down too quickly after removing a hot poultice. The next morning continue the hot poulticing and keep this up for at least a week. If you do not get the desired results write us again.

Lump on Jaw.—I have a cow 8 years old that has a lump under her jaw about as large as a man's fist; it is not connected with the bone. She came in from pasture some two months ago with the swelling. I immediately blistered it with coal-oil but this did not reduce the lump, only the swelling around it. About two weeks ago I made a small incision and got a little matter and blood; the lump seems to be hard and sometimes a little matter oozes out of it. I have been rubbing some strong liniment on the lump but it does not seem to have any effect. It does not grow, but is sore by pressure. What can I do to remove it? It is close to the jugular vein. Cow is doing well otherwise.

G. H. B. Lyndon, Kans. Answer.-From your description I judge that there is some matter in the center of the lump and if you will have somebody open it who knows the location of the important arteries, nerves, etc., and allow the matter to escape, then wash the wound thoroughly with 5 per cent carbolic acid solution daily, allowing this disinfectant to cleanse the pocket in which the pus is contained, I believe your cow will improve wonderfully. C. L. BARNES.

#### A Sample of Many.

EDITOR KANSAS FARMER:-Please change my paper from Eskridge to Marion, Kans. I began reading the FARMER in 1888, and I can't get along without the 'Old Reliable."

Wishing the paper and all concerned with it unbounded success, I Yours truly. am,

Marion, Kans. T. G. SCOTT.

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# In the Dairy

EXPERIMENTS WITH DAIRY COWS.

EXCERPTS FROM BULLETIN NO. 125, KANSAS EXPERIMENT STATION, BY D. H.
OTIS.

Of the agricultural industries contributing to Kansas success, dairying is playing a very important part, and is destined to become still more important as land becomes more valuable and as population increases. This is especially true in the Central and Western parts of the State, where the income from crops is more or less uncertain.

At times the dairy industry of the State has received a setback, because of too much enthusiasm from the possibilities of getting rich quickly. New creameries and skimming-stations have been started, and every one who had a cow, no matter what her capacity, was induced to milk her and send the milk to the skimming-station. For a time the creamery or station would appear prosperous; but on account of milking cows that were not profitable, it was not long until the interest began to fail, and the farmers would say that it did not pay to milk cows. Doubtless it did not pay to milk the class of cows that some farmers owned, and on account of these experiences with unprofitable cows it has been very difficult to get these men to engage in dairying with profitable

For continued success of the dairy industry it is not wise to laud its possibilities to the skies, but more effort should be spent in demonstrating what kind of cows it will pay to milk. Work of this kind will result in much more permanent good than injudicious exhortation to go into the business regardless of the class of cows milked. There are just as many business principles involved in successful dairying as there are in successful merchandising, and the dairy industry, in order to obtain permanent success, must be based upon certain underlying business principles.

The Kansas Experiment Station has been working with common grade and pure-bred cows, with a view of trying to solve some of the principal problems that assail our Kansas dairymen, and in this bulletin are detailed our experiences, together with comparisons that are drawn from outside sources.

WHAT THE AVERAGE KANSAS COW IS DO-

ING.
From the statistics gathered by the
Kansas State Board of Agriculture, we

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have sized the average Kansas cow as to what she is doing in butter-production and in cash income. In constructing the following table, the value of the butter produced was divided by the number of pounds produced, which gave the average price per pound. Assuming that the milk used in cheesemaking and what was sold was on the same basis, we divided the total value of these products by the average price per pound, which gives the total pounds of butter produced; dividing this by the number of milch cows in the State, we have the number of pounds of butter produced by each cow. By adding the total values together and dividing by the number of cows, we have the cash income per

Table I.—Showing what the average Kansas cow is producing.

	Tracma	
Wanten of	Butter.	per cow.
Year. Number of milch cows.	lbs.	Cash.
1893	53	\$8.54
1894 524.127	52	9.29
1895517,254	67 79	8.72
1896	79	9.58
1897	77	9.51
1898 605,925	77	.9.98
1899 684,182	77 71 65 55	- 9.54
1900712,582	65	10.46
1901 793,389	55	9.74
1902791,844	62	10.79
Averages626,426.9	65.8	\$9.615
	24	

In figuring Table I, the average seemed to be so very low that the figures were checked over several times. Of course, it is possible that the assessors do not get account of all the cows and perhaps do not get account of the full production of all the cows; but even allowing a good margin for any discrepancy of this kind, the average production of the Kansas cow is shamefully low. Even at the high average, twenty cents per pound for butter, the average Kansas cow is hardly producing enough to pay for the expense of milking, to say nothing of the cost of feed, interest on the money invested, etc. The cash income is also remarkably low; and unless a man can realize more than is shown in these figures he can not expect to make a profit out of dairying.

CREAMERY PATRONS' INVESTIGATION.

In order to inquire more fully into the results that are being obtained from Kansas dairy cows, the Kansas Experiment Station inaugurated an investigation during the summer of 1898. The Meriden Creamery Company kindly lent every assistance possible to carry out this investigation and in getting data throughout Jefferson County. An attempt was made to secure this information through the medium of letters containing an outline of the information wanted. Of the 300 letters sent to patrons, only eight replies were received. It became evident that in order to get this information personal interviews must be made with the individual patrons. Not all of these seen were able to give any idea as to the results they had obtained with their cows. One man said if he could answer the list of questions sent him that he would run for Congress. Through the kindness of the creamery management, who furnished a man and rig to drive to the patrons' homes, we were able to collect records and notes from eighty-two different patrons. Tables II and III give a summary of the results obtained.

Table II.—A year's record of best five herds.

		herds.		
Number of cows kept.	Milk produced per cow. lbs.	Butter per cow.	ncome from milk per cow.	Tota incom per cow.
20 3 9 4	6,371 5,159 5,229	317 243 244 236 226	\$42.09 34.29 31.46 30.87 30.00	\$54.38 45.87 45.14 40.33 39.95
Averages.	.5,476	253	\$33.74	\$45.13
Av. of 82 patrons.	.3,441	123	\$19.79	\$32.86
Table III.	—A year	r's recon	rd of poor	est five

herds.

27. ..., 1,117 57 \$ 7.54 \$20.69
12. ..., 1,466 67 8.04 18.04
10. ..., 1,678 70 8.84 23.42
3. ..., 1,901 84 10.70 19.12
8. ..., 2,057 91 12.08 36.71

Averages. .1,644 74 \$ 9.44 \$23.59

Yield of Milk.—In the yield of milk, the herds varied all the way from 1,117 pounds to 6,371 pounds, a difference of 5,254 pounds of milk, or 470 per cent. Examining the two tables, it will be noticed that the average yield per cow of the best five herds

was 5,476 pounds, and of the poorest five herds 1,644, a difference of 3,832 pounds per cow, or 233 per cent.

Yield of Butter-Fat.—It is interesting to see that there is a very great variation. The annual average of eighty-two patrons is 104.5 pounds of butter-fat. Figuring this butter-fat to butter (which is 85 per cent butterfat) we have the average yield of butter per cow as 123 pounds. This is nearly, though not quite, twice as much as given in Table II. It should be borne in mind, however, that at the time of this investigation Jefferson County was one of the very best dairy districts in the State. Comparing the butter-fat yield in the two tables, we see that the last yield is from a herd of twenty-seven cows, which made an average of 48.5 pounds per cow, and the highest is from a herd of twenty cows, which averaged 269.5 pounds per cow. The difference between the average of the poorest and the best herd is 221 pounds of butter-fat per year, or an increase of the best herd over the poorest herd of 456 per cent. An average of the best five herds is 215.05, and of the poorest five herds is 63 pounds, a difference of 152.05 pounds, or 241 per cent.

Enterprising dairymen claim that it will take 150 pounds of butter-fat a year per cow to pay for keeping her, and the profit comes from the yield given above that amount. If this be true, the cows that belong to the poorest dairy herds are, so far as milk- and butter-fat production are concerned, running their owners in debt, and were it not for the redeeming features of the calves produced, they would be better off without any cows.

Cash Income for Butter-Fat.—The eighty-two herds averaged \$19.79; the best herd averaged \$42.09, and the poorest herd \$7.54, a difference of \$34.55 per cow; the difference between the average of the best five herds and the poorest five herds was \$24.30 per cow. If this difference were figured on the basis of ten cows it would amount to \$243 per year, or \$2,400 in ten years

Value of Calves.—An estimate of the value of calves at weaning time was obtained from each of the eighty-two patrons. This estimate varied from \$4 to \$20 per head. The estimate of the value of the calves from the best five herds averaged \$8 per head and

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from the poorest five herds \$12 per head. From this it will be seen that the poorest herds had the best calves by \$4 per head, to compensate for the great loss of milk and butter-fat.

Estimates were also obtained as to the value of the skim-milk. These estimates ranged all the way from the equivalent of so much dish-water to fifty cents per 100 pounds. Counting in the income from the butter-fat, to which we add the estimate of the patrons as to the value of the calf and the value of the skim-milk fed to pigs (the value of the skim-milk fed to calves being counted as part of the value of the calf), we have the total income per cow for each of these herds. The total annual income per cow of the eighty-two patrons was \$32.86, for the best herd \$54.38, and for the poorest herd \$18.04—a difference between the best and poorest of \$36.34 per cow. The average for the best five herds is \$45.13, and for the poorest five herds \$23.59—a difference of \$21.54, or ninety-one per cent. One of the patrons that received the lowest income valued his calves at \$20 per head.

The difference between these herds is more than really appears on the surface. To show this difference, we will assume that it costs the owners of the poorest five herds \$15 per year to keep a cow. This amount will doubtless be greater with the owners of the best five herds, as they will furnish better care and probably better feed. We will add one-third more, or \$20, as the cost of the keep of a cow of the best five herds. Subtracting \$20 from the total income from the best herds,



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there remains a profit of \$34.48 per cow. Subtracting \$15 from the total income of the poorest herd we have left \$3.04 profit, or a difference in the profit of these two herds of \$31.34 per cow. To put it in another light this amounts to one cow in the best herd bringing as much clear cash to a man as eleven cows from the poorest herd, and only one cow to milk, shelter, and feed.

If we take the average of the best five herds in the same manner, we have a profit of \$25.13; from the poorest five herds, a profit of \$8.59-a difference of \$16.54 per cow. In other words, one average cow from the best five herds brings a man as much clear cash as three average cows from the poorest five herds.

In the above comparisons only averages of the herds have been used. If it had been possible to have carried the investigation further, and found what each cow was doing in the herd, we would doubtless have found as much variation between individuals of the herds as between the herds.

Why the Difference?-Doubtless many conditions enter in to produce these differences, but back of them all is the one great difference, the man. A man's cows seldom exceed his ideas of what a cow should be. Out of seventy-nine patrons who expressed themselves on the subject, fifty-six were general-purpose men, thirteen beef men, and ten special dairymen. Three of the general-purpose men intimated that the dairy business was unprofitable unless there were children at home to do the milking, and one man went so far as to say that he left his cows unmilked if the children happened to be away at milking time. Such men will not make a success of dairying no matter what their environments are

Next to the man himself, the cow doubtless stands as the cause of this great variation. Too many cows are to-day debt-contractors instead of debtlifters, and, unfortunately, too many of our dairymen are unable to distinguish bètween the two. They seem to think that because they get a little milk from a cow they are so much ahead; but they do not figure what it has cost to produce that milk. The importance of a good cow will be discussed a little later on.

The feed problem is another important factor in accounting for the difference in these herds. The grain ration fed to the best five herds contained bran, oats, and oil-meal in addition to corn and roughness. The cornfodder and prairie hay were balanced by alfalfa and red clover. In the poorest five herds there was one man who fed no grain whatever, three fed earcorn alone, and only one herd was fortunate enough to have oats in connection with cornmeal. Stalk-fields, cornfodder, prairie hay or millet constituted'the roughness, only one herd being fed a little clover hay.

The kind of sires used by these men undoubtedly had much to do in regard to the class of cows that were being milked. Among the eighty-two patrons there were nineteen who were using pure-bred sires. The majority were breeding to grades of the beef A few patrons exhibited their type. lack of gumption by breeding to any kind of a bull that would get fresh cows. One man remarked that he did not know what kind of a bull he had last year, but that he had a good one this year. When asked the breed, re-"Don't know; guess he's a Red plied: Polled."

The lack of shelter, salt, and pure water also contributed a share to the poor results obtained.

(To be continued.)

### A Ration for Milch Cows.

The writer runs a seventy-cow dairy and has plenty of good ensilage but is at a loss to know just what to combine with the ensilage to produce the most milk. We are now feeding at the rate of a bushel basket full to three cows. To each cow we feed a quart of cottonseed-meal along with the ensilage twice a day, but find cottonseed-meal rather too expensive. For roughness, we use good cane or mixed hay and keep the cows in barns at

night. Please give your experience, but remember that the State does not pay our expenses, and by this we mean that we want to try to use farm-grown feeds if possible. MARSHALL HARKER.

Franklin County. In order to suggest a definite ration, it is necessary to know what the different feeds available will cost. You neglect to state what you are paying for cottonseed-meal. I assume, however, that you can procure it for \$25 per ton. You are certainly fortunate in having plenty of good ensilage and I suppose you have probably made a calculation as to the amount on hand and are feeding it at a rate which will make it hold out until grass comes again. I do not see how I can reduce the expense of your ration to any great extent. It will be absolutely necessary to feed some concentrates rich in protein as corn ensilage does not contain a sufficient amount to maintain a high milk-flow. I do not believe you can purchase protein in any cheaper form than in cottonseed-meal.

The roughness which you are using, cane-fodder and mixed hay, is also very deficient in protein although an excellent roughage with the proper feeds to balance it. I would advise you in the future to endeavor to raise cow-peas and soy-beans and make your ensilage of corn, cow-peas and soy-beans, mixed. This will make an excellent ensilage and will be a much better balanced ration, the cow-peas and soy-beans being very high in protein; they also help to mtaintain the fertility of the land as clover does. I judge you are feeding about 25 pounds of ensilage a day. You can probably buy bran by the ton at about \$16 to

Below is a table which gives the digestible nutrients of a daily ration which would be suitable for a cow giving about 20 pounds of milk daily:

Dry	Pro-	Carbo-	Fat:
matter.	teln.	hydrates.	
Cane fdr. 20 lbs10.06	0.480		0.320
Ensilage, 25 lbs 5.22	0.225		0.175
Cottonseed- meal, 1½ lbs 1.38 Bran, 2 lbs 1.77	0.558	0.253 0.802	0.183 0.068
Total18.43	1.521	10.295	0.746

This ration, estimating cane-fodder at \$3 per ton, ensilage at \$1.50 per ton, cottonseed-meal at \$25 per ton and bran at \$18 per ton will cost a trifle over 8 cents which is not a very expensive ration. For cows giving larger quantities of milk, you need simply increase the quantity of grain mixture and possibly also give more ensilage.

G. C. WHEELER, Kansas Experiment Station.

#### Feeding for Milk-Flow.

Would you kindly give a little information regarding the feeding of milch cows, so as to get the largest possible flow of milk during the fall and winter. I have been giving my cows morning and night a gallon of dry bran, sometimes a little soaked oats with the bran. They get a fairly good feed of alfalfa hay morning and night, are turned into the blue-grass pasture during the day, though there is not much grass. They have plenty of good water. Kindly tell me if I am feeding right, and any other information you can concerning their feed as to quantity, kind, etc., and it will be greatly appreciated. R. B. DALE.

Douglas County. If you have alfalfa hay to feed your milch cows you will have little difficulty in procuring a large flow of milk at comparatively low cost for purchased feed. Alfalfa contains about 11 to 13 per cent protein, which is very deficient in many of our Kansas feeds. For the grain ration, however, I would not feed bran alone as it is rather expensive this year, and where alfalfa hay is fed it is not necessary to provide so much protein in the grain ration. I would suggest a mixture of bran and corn-chop. While oats are most excellent feed for dairy cows they are also too expensive. For cows producing about 30 to 35 pounds of milk I would suggest the following daily ration:

Dry	Pro-	Carbo-	Fat.
matter	tein.	hydrates.	
Alfalfa, 15 lbs13.74	1.150	5.940	0.180
Corn, 5 lbs 4.45	0.395	3.335	0.215
Bran, 5 lbs 4.42	0.645	2.005	0.170
matel 1 1 1111192.61	2.190	11.280	0.565

In feeding this ration it will be necessary to note the effect that it is having upon the cow, and if she is decreasing in milk-flow and laying on fat, the grain ration must be decreased. I believe the above ration will be as satisfactory and as economical as any ration you could feed your cows, and .I am certain you will get good results from it if you will give a little attention to the daily yields of the cows and also note their condition from day to G. C. WHEELER,

Asst. in Feeding Experiments, Kansas Experiment Station.

#### A Special Cow Ration.

Please give me a ration for a cow weighing about 750 pounds, giving at the present time 18 to 20 pounds of milk daily. She has been milked over nine months and produced 6923 pounds of milk, with test of 51/2 per cent. I have other cows of the Jersey breed that are a little heavier than this one. Ground corn will cost \$1 per cwt.; speltz, \$1.15 per cwt.; bran, 90 cents per cwt. I am now getting bran from a country mill, and it is not cut up as badly as usual and I think is a stronger feed. For roughage, I have clover and timothy hay, second crop, and well cured; it runs about half and half.

W. M. SHIRLEY. Brown County. If the rest of your herd are as good as this cow, you have a herd which it will pay you to feed properly. At the prices you have to pay for feed I would not recommend you to buy speltz at all, nor would I advise buying oil-meal to feed to the whole herd. It would be well to have some on hand and to cows giving very large quantities of milk it might be well to feed a half pound daily. For the general ration I would suggest the following as the daily ration:

	Dry matter.	Pro- tein	Carbo- hy drates.	Fat.
Clover hay, 8 lbs	7.29	0.384	3.752	0.080
Corn, 3 lbs	6.94 2.67 4.42	0.224 0.237 0.645	3.472 2.001 2.005	0.112 0.129 0.170
Total.	21.32	1.490	11.230	0.491

This amount of feed will furnish sufficient nutrients for cows of this size producing 20 pounds of milk. The timothy and clover will nearly supply sufficient nutrients for maintenance and the mixture of corn and bran is about in the right proportion for the production of milk. You can vary the quantity of this mixture in proportion to the milk each cow is giving. The cost of the above ration, estimating the hay at \$6 a ton, will be 12 cents. Your corn is apparently costing you rather high. If you could procure corn-chop at something nearer the price of earcorn the ration would be considerably cheaper. In spite of the high cost of

In the selection of a cream separator you should be guided by three es-sentials: 1 - simplicity and durability of construction; 2-ease and economy of operation; 3—ability to skim close and produce

a heavy, high per cent cream; 4—ease of cleaning. All these essentials are combined in highest degree in

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this ration, however, I think you will find it a very satisfactory one for the kind of cows you have.

G. C. WHEELER. Kansas Experiment Station.



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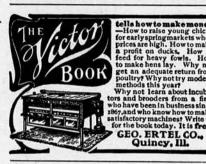
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### The Boultry Hard

CONDUCTED BY THOMAS OWEN.

Dust Bath for Fowls.

Nearly, if not quite, all species of land birds use the dust-bath. It is what water and soap are to the human family. They choose a spot of fine soil and scrape holes in it where they pulverize the dirt until it is reduced to a fine dust. In this place they roll and shake their feathers and allow the dust to penetrate to the skin.

It appears that in some way this is deleterious to the parasites which infest the plumage or skin of the fowls. It has been said by some naturalists that as all insects breathe, not through the mouth, but through small openings in the skin situated in rows along the side of the body, the fine particles of dust close these openings, so that the parasites die of suffocation as quickly as quadrupeds would if held under water. This has been denied by other scientists, who say these holes are defended by a very delicate but effective apparatus that makes it impossible for any foreign matter to enter, no matter how minute it may be. Be this as it may, we know that wild fowls take dust-baths whenever the weather and the state of the soil permit. We know also that all fowls like to take a dust-bath in places where the soil is fine and mellow. Nature is a good guide, and whether the dust-bath is for the prevention and absorption of effete matter which has become too odorous, or whether it acts as an insecticide, it is certainly advantageous to fowls, or they would not use it.

Therefore, the careful poultry-keeper will provide boxes or bins filled with fine road-dust, coal-ashes, sandy loam or fine clay thoroughly pulverized. They need this more especially now that they are penned up, for they can not possibly get a dust-bath in their pens, unless you provide it for them. It makes little difference which of these varieties of soil are used. The principal thing is to have it clean; that is, not a highly manured soil, but a comparatively unfertile one is preferable. Subsoil will do very well. The next qualification is that it must be perfectly dry, and one other qualification that it must be thoroughly pulverized. The best place to locate the dust-bath is just inside the south or east window where the fowls may enjoy the health-giving rays of the sun, and where the dust in the bin will be most apt to be kept thoroughly dry.

#### Poultry Notes.

The day before Thanksgiving is rather an inappropriate time to urge one to raise more turkeys. You ought to have several score ready for market just now and realize twenty cents per pound for them, for that is what they are paying for them to-day in Topeka. But one may prepare for another year by determining to buy a trio or more of turkeys at the winter shows and then you will have some to sell by next Thanksgiving.

Turkeys are good farm property, if the stock is vigorous and the birds are heavy. Some breed them so long without changing the male that they become delicate and difficult to raise as well as light in weight. Send off and get a first-class tom for next season's mating and it will repay you many times in the increase in weight and vigor of the offspring. After the first few weeks of their life, turkeys are not hard to raise and will almost secure their own livelihood by foraging on the farm.

In answer to an inquiry as to the best time to pick ducks for their feathers, I would say: The breeding ducks may be picked several times a year. generally from four to six times. Do not pick until the feathers are ripe, which can be told by pulling a few from different parts of the bodies of several birds. If they come out easily without any bloody fluid in the quill, they are all right and should be

picked at once or many feathers will be lost. In picking, pull only a few feathers at a time, by taking between thumb and forefinger and giving a quick jerk. Do not pull the bunch of long, coarse feathers under the wing. Before you begin picking, tie the duck's legs together with a piece of soft cloth, and if the duck is inclined to object to the picking by thrusts with the bill, slip an old stocking over its head. Use no unnecessary harshness with any of the birds and be especially careful with laying ducks. Sitting ducks and those that are soon to be set should not be picked. In warm weather much of the down may be taken from the drakes. Do not take any in cold weather. Duck feathers always bring a good price, especially white ones, and should be saved when dressing ducks, if they are sold dressed; if not sold dressed, do not pluck just before selling as they do not look as tempting and plump as when they have all their feathers on.

There is no sale for guinea fowls in market, but the guinea fowl is, nevertheless one of the finest of all table fowls, possessing a certain game flavor that is not found in other fowls. They have full-meated breasts, and possess but a small proportion of offal compared with hens. If their real value for the table were known, they would sell at high prices. On the farm they cost almost nothing to raise, being industrious foragers and there never was a better insect-exterminator than the guinea. Their eggs are very rich and nutritious and have an exceedingly hard shell, which keeps them fresh longer than chickens' eggs. Besides providing eggs without cost, they destroy thousands of insects, and though their efforts in that direction may not be apparent, yet the work goes on with them constantly. They are never idle, being busily engaged from early morn till late at night.

A farmer who has raised turkeys many years, and who takes pleasure in making experiments, writes that charcoal, turkey-fat and diamonds are alike in some respects, all being different components of carbon. It is a fact that more fat can be gotten out of charcoal than one would suspect without a knowledge of chemistry. There is an account of one experiment. Four turkeys were confined in a pen and fed on meal, boiled potatoes and oats. Four others of the same brood were at the same time confined in another pen and fed daily on the same articles, but with one pint of very finely pulverized charcoal mixed with their food-mixed meal and boiled potatoes. They had also a plentiful supply of broken charcoal in their pen. The eight were killed on the same day, and there was a difference of one and a half pounds each in favor of the fowls which had been supplied with charcoal, they being much the fattest, and the meat being superior in point of tenderness and fla-

As we have stated repeatedly, for chicken cholera there is no sure cure, but one of the best and most accessible remedies is a teaspoonful of carbolic acid in a quart of water. The symptoms of cholera are intense thirst (the surest sign), prostration, profuse greenish dropping and death in a short time. Indigestion, often mistaken for cholera, does not cause thirst and a fowl may live a week or more. The cause of indigestion is usually overfeeding, and the best re edy is sharp grit.

Peel three or four onions and chop them up with a chopping-knife in a wooden bowl and give to your fowls. Onions are one of the most healthy vegetables to feed raw to poultry. Some poultrymen give each pen of fowls a raw onion every day, and say that while they practice this they never have a sick chicken.

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## Brange Department

"For the good of our order, our country and mankind."

Conducted by E. W. Westgate, Manhattan, to whom all correspondence for this department should be addressed. Papers from Kansas Granges are ed-pecially solicited.

National Grange. Kansas State Grange.

Hansas State Grange.

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W. G. Obryhim.....Overbrook

#### From the National Grange.

We give below some of the many good things we have been or heard in Oregon:

It is rather surprising to find cornfields as fresh and green as in July; lawns like June; roses and other flowers in profusion; trees gaily dressed in their autumn foliage; rain falling every day but one since we came-and all day, too, but somehow it is a rain that does not seem to wet much. Streets are full of people-meeting of Grange attended by thousands. Churches well filled on the Sabbath. Umbrellas more necessary to a lady than her hat, and "they say" an Oregon babe carries an umbrella by instinct.

The opera house was crowded both afternoon and evening to-day with candidates for the sixth and seventh degrees of our order.

The sixth degree was conferred by the Oregon State Grange assisted by the master of the National Grange. The seventh degree in all its beauty of robes, regalias, and all its lessons from the past for the present, in the realms of mythology, science and religion was conferred by the officers of the National Grange in a manner very E. W. W. near perfection.

Portland, Oregon, Nov. 19, 1904.

THE GOVERNOR'S ADDRESS OF WELCOME. In giving the address of welcome on behalf of the State of Oregon, Governor Chamberlain said:

"As executive of the State I extend to you a most cordial welcome. Oregon is proud to entertain as her guests such a distinguished body of ladies and gentlemen as those was compose the National and several State Granges, and all of her people hope that your stay here may be most pleasant.

"A number of congresses and conventions have been held in this city in the past year, comprising delegates and representatives from every State and Territory, men of National and international reputation. All of them have had for their end and aim organization of their forces and the cultivation of a unity of sentiment and action as the best means of advancing the several interests which they have been called upon to represent. All of these conventions have been important, and have been productive of good not only to the individuals who have been able at attend, but to the country at large, and it is no disparagement of any of them to say that none have been of more importance to the welfare of our people than the one which convenes here to-day.

"The National Grange has had for its first object the betterment of the condition of the farming classes in the United States, and it is impossible for any one to calculate the good that has been accomplished by it and its membership throughout the country. This is an age of organization, and that body of men is best able to meet and overcome obstacles in the way of successful enterprise who can breast them with perfect organization and consolidation of its forces.

"Although there are a greater num-

ber of individuals engaged in agriculture than in any other industry in the United States, it is nevertheless true that until the organization of this order little in the way of State or Federal legislation was ever accomplished in their behalf. Certain it is that it has been largely through their influence and instrumentality that grants of land and appropriations of money have been made for the establishment of agricultural colleges in nearly if not every State in the Union. But for their efforts and those of its distinguished head, who is present with us to-day, it is questionable whether the rural free delivery, which has brought the farmer into close and intimate touch with urban life, would ever have been established. And certain it is that the slow recognition of agriculture as the foundation of our country's wealth was brought about through the efforts of the Grange, and now it has been so dignified through their combined energy that a department has been created with a representative at its head who sits in the official family of the President of the United States.

"No one can say that the accomplishment of these things has been brought about by misdirected effort. The result has been beneficial both to individuals, State and Nation, and as united effort and concentration of energy have brought about the achievements which I have mentioned, there is much yet to be done in the interest of the farmers and their families in this country. Let me suggest a few:

"Greater attention ought to be paid in the public schools of the State to instruction along the lines of field and farm. The trend of public thought is in this direction, but until some concentrated effort is put behind it to force this thought to the front and cause it to be put into practical operation not much can be expected at the hands of those in authority.

"The farmer either by direct or indirect taxation pays more to administer the affairs of Government than any other class of laborer. His lands, which are his stock in trade, are open and visible and contribute to county and State support, whilst wealth in the form of money and securities escapes its just proportion of direct taxation; and the burden imposed by excessive tariff rates, being a tax upon consumption, rests more heavily upon the farming classes of the country than upon the wealthy denizens of the cities.

"How can relief in these directions be obtained? An income-tax law is a first step in the direction of compelling wealth to contribute with the farm its just proportion of taxation. In the light of the decision of the Supreme Court of the United States, a constitutional amendment may be necessary to accomplish this end.

"A revision of the tariff along certain lines would be a second step to bring relief to an over-taxed and overburdened farming community. Certainly upon those articles which are manufactured by the trusts a tariff ought to be placed which would not compel the consumers of the country to pay tribute to those who have grown wealthy because of special privileges granted to them by law.

"There is no reason why agricultural implements and machinery, barbed wire, nails, sewing-machines and other articles which enter into the every-day life of the farmer should cost our own people more than they cost the subjects of Great Britain, Russia and other foreign powers. The improvement of the public roads of the several States will materially advance the interests of the farmers, as does everything which tends to cheapen transportation. There is no reason why Governmental aid should not be applied to the improvement of the public roads of the county with the same liberality that it has been extended to waterways and other commercial highways.

"I only call attention to a few of the things which it seems to me ought to receive the attention of the farmers of the United States, for if they put forth the same energy and effort in bringing about reforms along these lines that have been exerted by them

in the accomplishment of those which I have mentioned as due to their efforts, there is no question but that they will be relieved of many of the burdens which are imposed upon them by law, and which they bear in silence. It is not fitting for me at this time, or upon this occasion, to dwell at length upon these matters. I merely direct your attention to them, and bid you enter into these fields with that enlightened determination which has characterized whatever you have undertaken

"In conclusion, permit me to say that I feel honored in being permitted to welcome you, and I know that I but echo the wish of every man, woman and child in the State when I express to you the hope that your stay amongst us may be most pleasant. If some time it rains in Oregon, the gloom of such a period is more than counterbalanced by the magnificence of the sunshine and the beauty of our landscape, and we all hope that you may have an opportunity during your stay to look out upon our evergreen hills and snowcapped mountains with naught to obstruct the view or mar the picture that has been painted by the brush of the Almighty Himself."

#### Pomona Grange Organization.

Delegates from subordinate granges of Shawnee County met in hall at 121 West Sixth Street for the purpose of organizing a Pomona Grange. Each grange of the county was represented. Meeting was called to order by A. E. Dickinson, and William Sims was elected chairman and O. F. Whitney, secretary.

Article ten of the constitution of the Kansas State Grange was read for the purpose of getting directions to properly organize a Pomona Grange. H. H. Wallace then moved that members present proceeded to organize.

A. E. Dickinson moved that a committee consisting of one representative from each grange be appointed to nominate officers and board of trustees for the year of 1905.

The following is the adopted report of that committee:

Master, J. B. Sims; overseer, J. S. Longshore; lecturer, A. E. Dickinson; steward, J. M. Pollom; assistant steward, Wm. Kelley; chaplain, J. P. Carlott; treasurer, E. Higgins; secretary, O. F. Whitney; gate-keeper, W. L. Staples; Ceres, Villa McCord; Pomona, Josephine Sims; Flora, Mabel Waters; lady assistant steward, Sarah Danber; board of trustees, J. F. Cecil, W. H. Coultis, H. H. Wallace.

On motion it was ordered that on January 14, 1905, at 10 o'clock, we meet and install the officers of the Shawnee County Pomona Grange, and have an all-day open meeting, with a literary program, commencing at

A motion prevailed that the lecturer of each subordinate grange be requested to prepare a literary program for the union meeting.

To make the labors of the day lighter on the matrons of the grange, a committee was appointed to furnish a suitable lunch for the members who attend the union meeting. The lunch will be served in the dining-room of the hall and a small fee will be charged to cover cost.

Persons desiring to bring their own lunch will be furnished tables, chairs, etc., for their convenience.

Adjourned to meet January 14 at 9 O. F. WHITNEY, Secretary. a. m.

#### Very Low Excursion Rates for Christmas Holidays

mas Holidays
to all points on the Nickel Plate Road between Chicago and Buffalo. Excursion tickets on sale December 24, 25, 26, and 31, 1904, and January 1 and 2, 1905, good returning January 4, 1905. Three through express trains dally. No excess fare charged on any train. Also lowest rates and shortest line to Cleveland, Buffalo, New York, Boston and all Eastern points. Modern sleeping and dining-cars. Individual Club Meals, ranging in price from 55 cents to \$1, served in Nickel Plate dining-cars; also service a la carte. All trains leave from La Salle St. Station, Chicago. City ticket office, Chicago, Ill., 111 Adams St. and Auditorium Annex. For further particulars address John Y. Calahan, General Agent, 113 Adams St., Room 298.

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This medicine is a scientific cure fer nerve disorders, such as Neuralgia, Headache, Loss of Memory, Sleepless-Spasms, Backache, Bt. Dance, Epilepsy er Fits, Nervous Prostration, etc.

By toning up the nerves, Dr. Miles' Restorative Nervine will also cure those diseases of the internal organs due to a disordered nervous system.

Some of these are: Indigestion, Bilious Headache, Kidney Trouble, Chronic Constipation, Dropsy, Catarrh, Rheuma-

tism, etc.

"My brother had nervous prostration, and was not expected to live. I prevailed upon him to try Dr. Miles' Restorative Nervine, and now he has fully recovered. You remember I wrote you how it saved my life a few years ago, when I had nervous trouble. I preach its merits to everyone."—REV. M. D. MYERS, Correctionville, Iowa.

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#### Breeders' Combination Sale at Hope, Kans.

(Continued from page 1179.)

ing, Herington, Kans,! George Hay, Hope; C. A. Weaver, Admire, Kans.; G. H. White, Antelope, Kans.; D. Baltntyne, Herington, Kans.; Leol Bohaunes, Dillon, Kans.; J. W. Shuster, Hope; Frank Larson, Dillon, Kans.; W. G. Kreps, Banner, Kans.; Earl Bobinson, Hope; G. A. White, Marion, Kans.

#### Snyder Bros.' and J. R. Cooper & Son's Sale.

Snyder Bros.' and J. R. Cooper & Son's Sale.

Snyder Bros.' annual sale was this year enlarged by the addition of a consignment by J. R. Cooper & Son, the sale being held at the latter gentlemen's place, two miles north of Winfield, Monday, November 23, 1504. Special credit is due to the auction-eers, Col. Jas. Sparks, Marshall, Mo.; Col. Lafe Burger, Wellington, Kans.; and Col. J. R. Miller. Winfield, Kans., for the general fair prices prevailing, as this section of the State is no exception to other parts where the price of feed is high. This, and the coming on of winter accounts for the fact that higher prices were not received. The animals were in fair condition, being in their every-day clothes and not specially rigged up for the occasion. Of the large herd which Snyder Bros. have, they had 32 head in this sale, and J. R. Cooper & Son had 19 head. The weather was perfect and the crowd was correspondingly good, though there were not as many breeders in attendance as would naturally be expected under more favorable conditions. The top of the sow sale was a gilt owned by J. R. Cooper & Son, which was sold to Fred C. DeMott, Arkansas City, for \$41. Among the other buyers were: Jas. Alley, J. S. Veall, T. A. Hubbard, Wellington, Chas, Craig, Oxford; A. B. Goodwin, New Salem; W. H. McKinley, Orlando, Okla.; L. C. Robertson, J. R. Cooper & Son, G. W. Newman, T. H. Harrod, R. B. Sanford, W. F. Gill, W. F. Melton, J. C. Poucher, D. B. McCollum, J. A. Hill, Isreal Sands, W. I. Beach, M. D. Snyder, S. H. Riggs, and John H. Falkingham, Winfield; G. E. Hayder, Newkirk, Okla.; Ed. Pray, Klowa; J. C. Alsip, Arkansas City; Benj. Ahlerich, Akron: Marshall Bros. and Harry E. Lunt, Burden; L. W. Whitson, Hackney; Geo. W. Hough, Milan; L. E. Parsons, Udall; H. W. Gates, Anthony. Snyder Bros. sold 32 head for \$465, averaging \$14.53; 11 boars brought \$141, making \$15.43 average; 21 sows brought \$324, making \$15.43 average; 10 boars brought \$167, making \$16.70 average; 9 sows brought \$167, making \$16.70 average; 9 sows brought \$

#### Spriggs' Horse and Jack Sale.

Spriggs' Horse and Jack Sale.

A very important sale of draft- and coach-horses and mammoth jacks will be held at Ottawa, Kans., on December 15 in the Forest Park sale pavilion. The bulk of this offering comes from the blueribbon herd of S. A. Spriggs, Westphalla, Kans. The offering includes a pair of fine Percheron mares weighing in full flesh 3,700 pounds, age 6 years. This pair won first and second prizes at the American Royal Show of 1903, having never been defeated in the show-ring, and both are in foal to an imported stallion. Another mare is Bernice 18851 that won so many premiums at Kansas and Missouri Fairs this year. She is the dam of four good young stallions, one of which sold at 3 years old for \$1,400, and Mr. Spriggs refused \$1,000 for her yearling stallion sired by Casino, the \$7,000 stallion at the head of the famous herd of J. W. & J. C. Robison, Towando, Kans. This mare is safe in foal to Imp. Faito, champion of the Missouri State Fair. All the mares included in the sale are black or very dark brown and all in foal to the big black imported Percheron stallion. There will also be included a splendid lot of jennets safely bred to King Jumbo, the champion of Missouri and Kansas State Fairs this year. Visitors at the fairs will remember that Mr. Spriggs made the best show of jacks and jennets seen during the fair season og 1904. Mr. Spriggs has acted in the capacity of expert judge two years at the Missouri State Fair, also at leading Kansas fairs where he was not an exhibitor. He is the owner of one of the largest herds in the West and his offering at Ottawa is certainly a very attractive one for buyers who are in need of choice stock. Remember the place of sale and for further information address S. A. Spriggs, Westphalia, Kans.

#### \$200 Reward for Stolen Percheron Mare.

Stolen or strayed from our farm near Wakefield, Kansas (Clay County), a fine, 2-year-old Percheron mare, some time since Sentember 25, 1904. She is a large mare of slightly rangy type that would weigh close to 1,500 pounds at the time she left the pasture but might weigh less now. Color black with small star in forehead, but as she had run in pasture all summer was sun-burned or faded. Head large and a trifle coarse with one ear split near the point about three-fourths of an inch (think it was left ear.) Had quite heavy mane and tall for so young a mare. Feet were irregular and consideraly broken.

If stolen \$100 reward will be paid for the return of the mare and \$100 for the arrest and conviction of the thief or thieves.

For further information write or wire to Henry Avery & Son, Wakefield, Kans., or United States Head Sheriff, Clay Center, Kans.

#### Gossip About Stock.

On December 21, M. L. Ayres, Shenandoah, Iowa, sells 30 registered Percheron brood mares at auction. See fall announcement next week. The big event of the season. Write for his catalogue.

In a recent letter from S. W. Artz, breeder of O. I. C. swine at Larned, Kans., he states that he recently sold a trio of O. I. C. pigs to a man in Old Mexico. He states that his spring crop is all sold but that he has a number of extragood fall pigs for sale yet. Write him for information, and mention the Kansas Farmer.

J. F. Chandler, Frankfort, Kans.,

changes his ad in this issue and writes that his Duroc-Jersey boars are coming along in fine shape. They are in excellent breeding condition, weighing from 175 to 225 pounds. Any breeders who are interested in good hogs should write Mr. Chandler, and they will receive courteous treatment and reasonable prices. Mr. Chandler will hold a bred-sow sale on February 20, 1905.

Geo. W. Berry, manager of the Berkshire division of Sunny Slope Farm, owned by C. A. Stannard, Emporia, writes as follows: "It may interest you to know that I have just sold for export, four Berkshire boars to Hon. Richard H. Beattle, Manzanillo, Cuba. The animals which have been selected for export are four choice boars sired by Headlight 74739, and from sows that were sired by Black Robin Hood 66085."

The Kansas Farmer is in receipt of Volume 59 of the American Shorthorn Herd Book, containing pedigrees of animals, calved before April 6, 1904. In this book are recorded the pedigrees of bulls from 214519 to 219824, and about an equal number of cows, together with a complete index for each sex. Interested parties may secure a copy of this volume by addressing Secretary John W. Groves, Chicago, Ill., and remitting the usual price.

On Thursday, December 15, James A. Carpenter, Carbondale, Kans., will make a dispersion sale of forty Hereford cattle, consisting of cows, helfers and calves and the herd bull, Beau Gondolus 133277, a son of Beau Brummell. The cows trace to Lord Wilton, Grove 3d, Anxiety 4th, and Boatman. In connection with the dispersion sale of Herefords Mr. G. B. Scott, Carbondale, will sell forty-five head of pure-bred and registered Poland-China hogs. For catalogue address as above.

Our readers will notice in the dates claimed for thoroughbred stock sales that Mr. F. A. Dawley, Waldo, Kans., has announced a sale of bred sows from his fine herd of Poland-Chinas, to be held on February 2, at Osborne, Kans. We predict for this sale a success that will break the records for that section of Kansas. Mr. Dawley has lately added a half dozen remarkably fine glits, purchased from the herd of F. M. Lail, Marshall, Mo. Two of these are sired by C's Perfection and the others by Grand Chief, and the fact that they come from Lall's herd is of itself sufficient recommendation of their quality. It is too early to give particulars about the consignment to this sale at this time, but Mr. Dawley thinks that he has a spring boar, by his herd boar Woodbury out of Gwendoline, the dam of Highroller, that is better than anything that he saw in the six-months class at St. Louis. Mr. Dawley is a pretty good judge of hogs, too.

The forthcoming sale to be held at Archie, Mo., on December 6, 1904, of fifty head of toppy selections from the two great Missouri herds of A. E. Schooley, Austin, Mo., and J. R. Young, Richards, Mo., is an atractive event that should especially interest the Poland-China breeding fraternity of Kansas and Oklahoma, in view of the fact that the champion boar, Predominator and his son Dominator, a World's Fair winner, and Mr. Young's Perfect Perfection, a winner at the Missouri State Fair and the St. Louis World's Fair, are to be sold. It is the greatest array of prize-winners yet to be offered this year. The twenty-five pigs consigned by Mr. J. R. Young are sired by Missouri Black Perfection, Chief Perfection 2, Perfection E. L., Mascot, etc. He also sells five sows bred to Confidential, his great herd boar, a fine son of Missouri Black Perfection. Notice the advertisement in this issue, get catalogue and try to be present at the sale, or send bids to either auctioneer, care of Mr. A. E. Schooley. Mr. Schooley has given an option on his farm, which he is offering for sale, and therefore includes breeding animals in this sale that he would not otherwise offer for sale. No culls, all tops.

#### Great Boer War Exhibition from World's Fair Will Visit Kansas City in December.

City in December.

The South African Boer War Exhibition Company, universally acknowledged to be the biggest single attraction of the late St. Louis World's Fair, and certainly the most marvelous spectacle in the world today, is coming direct from St. Louis to Kansas City, and will give performances daily from December 5 to 14, inclusive, in Convention Hall.

General Ben J. Viljoen, second in command of the entire Boer forces during the late war, and author of two wonderfully thrilling books on his experiences on war, viz., "Under the Vierkleur." and "My Reminiscences of the Anglo-Boer War," is president of the company and camp commandant. General Viljoen went to St. Louis in advance of the company, and has all through taken a most active part in the administration of the company's business.

Then, there is General Piet Cronje, champion of many a fight against the savage tribes of his country, but known to all as the "Hero of Paardeburg." A strong, rugged face this Dutch general has, with a round, stubborn head set firmly on his heavy shoulders, his hair and flowing beard unkempt, and plainly dressed in an old black suit; he rides into the arena in an apparently unconcerned manner and receives the plaudits of the crowds. General Cronje during his stay at the World's Fair was asked by many persons how it was that he could bring himself to enact over again these heartrending scenes, but his reply has always been, "It is only play." If questioned further, Cronje will explain that there is a very great lesson to be learned by this spectacle, for by witnessing modern warfare with all its attendant horrors so vividly portrayed, one can not fall to carry away an earnest desire for universal peace.

With the two Boer generals are twenty Boer officers including Commandant J. N.

away an earnest generals are twenty peace.
With the two Boer generals are twenty Boer officers including Commandant J. N. Boshoff, who was entrusted with the safe keeping of President Steyn during the time the Boers were so hardly pressed from the Orange River Colony to the Transvaal, and Commandant Van Dam, late chief of police at Johannesburg.

HAVE YOU A HORSE? WOULD YOU LIKE US TO SADDLE?

FOR THE MOST WONDERFUL SADDLE OFFER EVER HEARD OF, an offer by which anyone can have the nicest saddle in his neighborhood, cut this ad out and send it to us and you will receive our New, Big and Beautiful Special Saddle Catalogue, large, handsome photographic illustrations of all kinds of

Men's, Women's, Boys' and Girls' Saddles,

Stock Saddles, Ranch and Range Saddles, SMALL, MEDIUM AND LARGE, PLAIN AND SANGY SADDLES. OUR PRICES WILL ASTONISH AND PLEASE YOU.

You will get our Yory Latest and Most Astonishingly Liberal Offer, you will get our New Free Trial Plan, you will receive a saddle offer that every horse owner should have at once. If you own a horse don't fail to cut this ad out and send to us today and see what all you get by return mail, free, postpaid.

ADDRESS, SEARS, ROEBUCK & CO., CHICAGO.



# TOOLS FOR FARMERS'USE

There is no investment a farmer can make of a like amount that will save him as much time and money as will an outfit of tools. The time lost in going to town usually amounts to more than the cost of the repairs.

You save both the time and the money when you have the tools. It is not necessary to be a mechanic to do your own repairing. The average farmer has ability enough to do his own work if he has the necessary tools.

We manufacture an outfit especially for farmers' use and sell it to you just as cheap as we would to the largest wholesale house in the United States. We have no agents.

During the next thirty days we wish to sell at least two thousand outfits. To influence you to purchase at this time, we realize that we must make it to your advantage to do so, hence the most liberal offer ever made in the tool line.

A STEEL FORGE — 17x24 inch hearth with an

A STEEL FORGE — 17x24 inch hearth with an Eleven-Inch Ball-Bearing Fan

## ABSOLUTELY FREE

to every person buying an outfit consisting of 1 Malicable Iron Vise, 1 Malicable Iron Drill Frame, 1 Drill Set, 1 Screw Plate, 1 Fifty-Pound Anvil and 1 Hardy. Malicable Iron makes them the strongest, best and cheapest tools made. We also make Lever Forges. We prepay the freight and ship on approval.

Diplomas awarded us at the Iowa, Nebraska and Kansas State Fairs, 1903.

Space will not permit us to describe the tools here, but write us a postal today and we will send you catalogue and full particulars. Don't neglect it, as this advertisement may not appear again. Offer good for 30 days only.

C. R. Harper Mfg. Co., Box 805, Marshalltown, Iowa

## -Blacklegine-BEST AND MOST CONVENIENT VACCINE FOR BLACK LEG. ASTEUR VACCINE CO SAN FRANCISCO

## 45 High-bred Registered Scotch Collie Pups For Sale 45

READY TO SHIP NOW. Last Spring had 22, but was not enough to go around. Had to return six money orders. If you want one for a Christmas present put in your order at once.

WALNUT GROVE FARM, H. D. NUTTING, Proprietor, Emporia, Kansas

Going to Business College?

If so, you will be interested in our beautiful illustrated eatalogue. It tells all about our courses of study, equipments, methods of instruction, and the success of our graduates. It is free. Address COLLEGE, Dept. 35, Lincoln, Neb.

Officers of the British Army are in com-mand of the British contingent, all of whom served with distinction during the war and hold both the King's and Queen's

medals.

The entire body of men, numbering some 350 Boers and 250 British, came over from South Africa in April last on the "Doune-Castle," a specially chartered Union Castle "Liner" for the express purpose of reproducing scenes from the Boer War at the World's Fair, and every man took an active part in the great struggle. Mimic warfare is child's play to these battle-scarred vetorans; the realism incused is wonderful to behold and beyond the comprehension of those who have not witnessed it. Here one may see portrayed in every detail all the awful horrors of war with a realism that makes men shudder and brings tears to the eyes of women.

men.

The Battle of Colenso illustrates the repulse of the British Army, under General Sir Redvers Buller, in the attempt to cross the Tugela River and relieve Ladysmith. The principal feature in this fight is the capture of Colonel Long's guns by the Boers who were under the command of Generals Botha and Viljoen. General Viljoen participated in this battle himself.

vincen participated in this battle nimself.

The last stage in the Battle of Paardeburg, and capture of General P. A. Cronje with 3,500 men is also re-enacted with
great vividness and reality. It is indeed
a pathetic sight to see the old General
ride in at the head of his men and surrender himself and his command to
the victorious Lord Roberts. But the odds
are overwhelming—they are surrounded
on all sides, their ammunition is exhausted, their water-supply impregnated with
bodies of dead horses and men, and themselves utterly worn out with eleven days'
incessant vigil and fighting. The words
of Lord Roberts as he shakes hands with
General Cronje, "I am glad to meet you,



huskers, feed grinders, feed cutters, horse powers, windmills, manure spreaders, etc. Large catalogue free. APPLETON MFG. CO., LATAVIA, ILT.

sir, I am proud to get so brave a man," shows his appreciation of the plucky stand made by Cronje and the Boers.
The final scene is a remarkably clever illustration of one of the famous General de Wet's marvellous escapes when hemmed in on all sides by a strong cordon of British troops.

When writing advertisers please men-tion this paper.

Christmas Holiday Excursion Rates

via the Nickel Plate Road, December 24, 25, 26, and 31, 1904, and January 1 and 2, 1905, good returning January 4, 1905, at a fare and a third for the round trip, between Chicago and Buffalo. Three through express trains daily to Ft. Wayne, Findlay, Cleveland, Erie, Buffalo, New York, Boston and all Eastern points. Through Pullman sleepers and excellent dining-car service, individual Club Meals, ranging in price from 35 cents to \$1, being service a la carte. No excess fare charged on any train. Chicago depot, Van Buren and La Salle Sts. City ticket offices, 11 Adams St. and Auditorium Annex. All information given upon application to John Y. Calahan, General Agent, 113 Adams St., Room 298.

On November 15, and daily thereafter, until the summer season of 1905, the Frisco System, in connection with the Southern Rallway, will operate through Pulman Sleepers between Kansas City, Mo, and Jacksonville, Fla. These Sleeping Cars will be placed in service as part of the equipment of the popular "Southeastern Limited," scheduled to leave Kansacity 6.39 p. m. A modernly equipped train, electric lighted cafe, observation car, etc.—the route of which carries the traveler through the populous cities of the Southeast.

Berth reservations may be made through representatives of Frisco System or connecting lines. Passenger Traffic Department, St. Louis.

#### Opportunities.

Good openings for all lines of business and trade in new towns. Large territory thickly settled. Address Edwin B. Mag-gill, Mgr., Townsite Department, Chicago Great Western Railway, Fort Dodge,

## The Markets

Kansas City Live-Stock and Grain Markets.

To-day's cattle receipts amounted to slightly over 14,500 head, of which the greater part was from the range country. The market was generally steady with last week. Beef steers wer active and steady though good ones were scarce. Short fed stuff was a little draggy. A good bunch of steers topped the market at \$5.80, with another string its close secand at \$5.70. Cows were steady to weak generally but some of the poorer grades were a little lower. Several head of good cows sold above \$3. Stockers and feeders were steady and fairly active, most of

were steady and fairly active, most of the sale being above \$3 and a good many ahove \$3.25 and ranging as high as \$3.85. There were 20 loads in the Texas division and all that sold went at steady prices. The supply of cattle last week was heavy considering that it was Tranksgiving week. The five days market of last week had 53,209 head of cattle, which was about 20,000 more than the same week last year. The trade in cattle last week was slow and a weaker tendency prevailed throughout the week. This condition is always expected during Thanksgiving week when the market is flooded with game. The top sale last week was \$5.85. The market on she stuff was 100150 lower than the previous week. Shipments of stockers and feeders to the country last week was \$20 cars. Big heavy feders sold with a weak tendency, but other kinds were about steady. The top price for feeders for the week was \$4.25, the bulk around \$2.25. Top stockers was \$3.75 and the bulk was around \$2.20.

There was 7,500 hogs here to-day and the quality was exceptionally good for Monday. The market was active but \$60 lie lower while a flat dime lower was reported from Eastern markets. The top 10-day was \$4.724 with the bulk from \$4.45 e4.65. Fairly good mixed packers seemed to show the most weakness. Official receipts of flogs last week was 58,549 head, 20.000 more than the corresponding week last year. The fluctuation in prices this week has been very light and the decline for the week is only about 5000 under the previous week's finish. Prices are 20 e55c higher than this time last year. The top price last week was \$4.82½ and the bulk was from \$4.4504.455; the top on light head was \$4.62½ and the bulk was from \$4.4504.455; the top on light head was \$4.62½ and the bulk was from \$4.4504.455; the top on light head was from \$4.4504.455; the top on light receipts at the Western warnets livened up the market opened slow but was so

## Special Want Column

"Wanted," "For Sale," "For Exchange," and small or special advertisements for short time will be inserted in this column without display for 10 cents per line of seven words or less per week. Initials or a number counted as one word. No order accepted for less than \$1.60.

FOR SALE-Eight good, registered Shorthorn bulls, four straight Crulckshank, good ones, and prices right. H. W. McAfee, Sta. C, Topeka, Kans.

FOR SALE—4 Scotch-topped Shorthorn bulls at a bargain, serviceable age. Address, Dietrich & Spaulding, Richmond, Kans.

FAIRVIEW FARM GUERNSEY'S FOR SALE. A fine lot of well-bred young bulls, ages ranging from one month to service age, at farmers prices. Wilcox & Stubbs, Des Moines, Iowa.

FIVE CHOICE YOUNG REGISTERED GAL-LOWAY BULLS to close out, at once. Address Wm. M. McDonald, Girard, Kans.

HOLSTEIN-FRIESIAN BULL CALVES FOR SALE-From best registered stock. Address A. J. White, Route 7, Station B, Topeka, Kans.

FOR SALE—2 oneice Hereford bulls, 22 months old; something good. Call en or address A. Johnson, Route 2, Clearwater, Sedgewick Co., Kansas.

FOR SALE.—Three choice young Galloway bulls, red by Staley of Mashua (1997) bred by I. B. and M. Thompson. Fine individuals, and bred right, tulberry herd of Galloways; visitors welcome. Robert Dey, Walton, Kans.

FOR SALE—A 8-year-old Shorthorn bull, sired by oyal Bates. Address Dr. N. J. Taylor, Berryton,

FOR SALE—6 good Shorthorn bulls, 3 of them straight Cruickshanks; come and see me. H. W. McAfee, Topeka, Kans.

FOR SALE—Guernsey bulls from best registered stock. J. W. Perkins, 423 Altman Building, Kansas City, Mo.

#### SEEDS AND PLANTS.

WANTED—Cane, Kafir-corn, millet, clover, alfal-fa, pumpkin seed, sunflower seed and pop-corn. Send sample and state how much you have. Ad-dress A. A. Berry Seed Co., Box 50, Clarinda, Iowa.

HONEY—New crop, water white, 8 cents per pound. Special prices on quantity. A. S. Parson, Rocky Ford, Colo.

WANTED—Cane, kafir-corn, millet, alfalfa, clover, English blue-grass and other seeds. If any to coffer send samples and write us. Missouri Seed Co., Kansas City, Mo.

FOR SALE—New grop alfalfa, timothy, clover, English and Kentucky blue-grass, and other grass seeds. If in want, please ask us for prices. Kansas Seed House, F. Barteldes & Co., Lawrence, Kans.

WANTED—New crop alfalfa, red clover, timothy, English blue-grass, and other grass seeds. If any to ofter, please correspond with us. Kansas Seed House, F. Barteldes & Co., Lawrence, Kans.

#### POULTRY.

ROSE C. W. LE(4HORNS-50 cockerels for sale cheap if taken early. Mrs. A. D. Corning, Route 1, Delphos, Kans.

auction is held this week, and buying supplies. Prices ranged strong and occasionally higher than those of last week. Southerners were in heaviest supply and ranged from \$35@/15 per head. Some drivers sold at \$165 but they were choice.

The mule trade drifted along much in the channel of the previous week, the demand for cotton mules being fair and a number of lots being sold. Prices on them ranged from \$90@/140 uer head for the 14 to 15½ hand cotton mules, fat and with some quality. Some heavy mine mules brought \$165 per head. Only the fat, qualitied ones are wanted. The commission barn had about 700 for sale and disposed of 550 at steady prices. This morning, they received 200 head, mostly thin, mules and trade has been slow all day.

thin, mules and trade has been slow all day.

Receipts of grain at Kansas City today were 177 cars wheat, 11 oats, 4 rye.
Demand for wheat was fair and the market was slow and lower. No. 2 hard
\$1.02½@1.03, No. 3 hard \$1@1.02, No. 4 hard
\$90c@\$1; No. 2 red \$1.04@1.07, No. 3 red \$1.01
@1.04, No. 4 red 93@97c. The corn market
was lower. No. mixed 44½@45c, No. 2
mixed 43½@45c, No. 3 white 43½@44c, No. 4
white 42@43c. Oat market was quiet and
weak. No. 2 mixed 29½@29½c, No. 3
mixed 29@29½c, No. 4 mixed 27½@28c; No. 2
white 30@30¾c, No. 3 white 29@29½c, No.
4 white 28½@29c.

H. H. PETERS.

2 white 30@30%c, No. 3 white 22@29%c, No. 4 white 28%@29c.

1 White 28%@29c.

1 White 28%@29c.

1 H. H. PETERS.

Clay, Robinson & Co. write:

For the week ending last Saturday official receipts of cattle were 53,209, compared with 55,348 last week and 37,365 during the same week a year ago. The market for beef steers was none too satisfactory. Hardly enough choice grades came in to test values, bulk of the supply running to short fed stock. Cows and heifers closed the week 10@15c lower. Bulls were unchanged. Veal calves were steady under a light supply. Prices for stockers and feeders held up quite well and, although a little weakness was apparent in spots, general values were unchanged. Receipts of cattle to-day were 14,500, the greater part of which number consisted of medium quality range offerings. Trade was slow on beef steers but prices were steady for them, although on plain and coarse short fed stuff, some 10c lower sales were recorded toward the close of the market. Tops brought \$5.80.

Cows were weak to 10c lower. Bulls and veal valves were steady. Stockers and feeders were fairly active and steady.

Official hog receipts for the week ending Saturday were \$5,49 against 63,489 last week and 33,154 a year ago. The week's closing prices were 5@10c lower than the preceding Saturday, but around 25c higher in at the same time a year ago. Receipts to-day were 7,000 and the market \$6,000 lower. Bulk of sales were from \$4.40@4.65; top \$4.72\frac{1}{2}.

The shep and lambs market has been a good one with values advancing. Lambs reached 6c, wethers \$4.76, ewes \$4.50, year-lings \$5.

#### FARMS AND RANCHES.

MARION COUNTY BARGAINS—Two hundred and twenty acres of fine rich land, splendidly improved, 1½ miles from station, 5 miles from county seat; price, \$13,000. 160 acres fine land and one of the best improved farms in the county, one-half mile from station and 6 miles from county seat, at \$3,500. 80 acres good land, fair improvements, 1 mile from county seat; price, \$2,800. Write for list. A. S. Quisenbury, Marion, Kans.

WANTED TO RENT—A good, well-improved farm, from one quarter to one-half section of good farming land, for cash or grain rent. Address A. O. Bachnick, Route I, Wallula, Kans.

FARMS AND RANCHES FOR SALE—No. 1, 240 acres, dug well, 135 acres broke, all fenced, 100 acres in wheat, 40 acres good alfalfs ground, mostly good farm land; price, \$10 per acre, \$2,400.

No. 2, 400 acres, includes No. 1, and 35 acres, broke, house, well and windmill, 10 or 12 acres good alfalfs ground.

\$4,000.

No. 3, 480 acres, includes Nos. 1 and 2, \$9.50, \$4,560.

No. 4, \$40 acres, includes Nos. 1, 2 and 3 with 320 grass land added, 50 acres alfalfa land, a dug well, \$7.50 per acre. \$6,400.

No. 5, 560 acres, all fenced, 70 acres of wheat, balance grass, one-half can be farmed. \$6.75 per acre. \$3,650.

\$3,880. No. 6, 480 acres, house, well, windmill, stables, granaries, living water, all fenced, 150 acres of wheat, 7 acres of alfalfa and about 50 acres of alfalfa land. 88 per acre. \$3,900. No. 7, 1040 acres, includes Nos. 5 and 6, \$7,580. No. 8, 1,880 acres, includes all the above. I will sell in lote as described or all together for \$7 per acre. \$13,160. Call or write L. M. Day, Greensburg, Kans.

160 acres, \$4,100; 40, \$850. Bargains; terms; trades. Buckeye Agency, Route 2, Williamsburg, Kans.

#### HORSES AND MULES.

FOR SALE—Percheron stallion, 2 years old past dark brown, 16½ hands high, weight 1,500. Address J. M. Beach, Route 1, Maple Hill, Kans.

STRAY MARE—A black mare came to Wm. Cook's residence, one-half mile east of the city of Downs, Kans., on or about the 10th day of October, 1904, weight about 900 pounds, age about 8 years, worth, \$40: branded on the left shoulder, owner or owners will please come prove property and pay expenses.

#### SWINE.

HERD HEADERS AND BROOD SOWS—Handsomely made, fashionable bred Poland-Chinas, size, quality, vigor; grown for successful breeders strictly. If you want a fancy young boar, open or bred git, will make you a low price for next 30 days. Will have bred sow sale in February. H. M. Kirkpatrick, Wolcott, Kans.

POLAND-CHINA HOGS—Tried brood sows, win-ter and spring glits, serviceable boars and fall pigs of choice breeding, healthy and all right. Prics, about one-half value. L. D. Arnold, Enterprise, Kans.

FOR QUICK RETURNS—11 of the very choicest breeding of Duroc-Jersey boars from premium stock, April farrow, color right, ears right, head right, and all right or money back; special price for the next 30 days. F. L. McClelland, Route 1, Berryton, Shawnee County, Kans.

BUY AT HOME—I have the best in Poland-Chinas for sale. E. J. Knowlton, Alden, Rice Co., Kans

POLAND-CHINA PIGS, \$7 EACH. Satisfaction guaranteed by Abe Hertje, Tonkawa, Okla.

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## The Stray List

For Week Ending November 24.

McPherson County—B. Harms, Clerk.
MARE—Taken up by B. Reichert, in King City
tp., Oct. 29, 1904, one gray mare, branded "J." "C."
on left shoulder; valued at \$20.

#### Week Ending December 1.

Coffey County-W. M. Palen, Clerk. BULL CALF—Taxen up by Harry F. Povennire, in Liberty tp. (P. O., Route 1, Gridley), October 19. 1994, one red and white bull calf, about 3 months old, large red spot on nose; bush of tail white.

Rawlins County—H. W. Robertson, Clerk. STEER—Taken up by J. F. Steele, in Beaver tp. (P. O. Blakeman), November 16, 1904, one dark red steer, 2 years old, weight about 550 pounds; valued at \$13. Rawlins County-H. W. Robertson, Clerk,

Chase County—J. E. Bocook, Clerk.
STEER—Taken up by C. D. Arnold, in Falls tp.
(P. O. Cottonwood Falls), Nov. 8, 1904, one 3-year-old
red steer with white face, dehorned, branded L on
left shoulder, crop in both ears; valued at \$40.

Wabaunsee County—Simeon C. Smith, Clerk.
50W—Taken up by John Zeller, in Newbury tp.
(P. O. Paxico), Oct. 24, 1904, one white sow, weight
about 350 pounds; valued at \$15.

### Horticulture

How California Fights Her Fruit-Pests.

H. A. CRAFTS, IN FARM AND FIRESIDE.

The fruit-growing world is under a heavy debt to California for the part taken by that State in the work of exterminating insect pests. After her fruit industry had been threatened with destruction, and millions of dollars had been expended in investigations and in the use of expensive sprays and fumigants, Mr. Alexander Craw, an enthusiastic entomologist discovered the parasitic cure.

Mr. Craw's theory was that every species of animal life has its natural enemy. Were it not so, life would increase to such an extent that it would overwhelm the earth. He also argued that where a certain species appeared in abnormal numbers the natural enemy of the species must necessarily be absent, thus permitting the insects to increase without hindrance. The natural cure for the pest was to introduce the insect's parasite, encourage its increase, and then give it free access to its prey, thus, as Mr. Craw put it, "restoring the balance of Nature."

So reasonable did this proposition appear that both the horticulturists and the State Legislature took it up and provided means for the development of the system. In 1891 the State Legislature passed a law appropriating \$5,000 to employ an expert to make search for and procure for the use of the California fruit-growers such beneficial insects as could be found in any part of the world. Prof. Albert Koeble, at attache of the United States Department of Agriculture, was the first person to be sent out upon this errand. After him came Charles Compere, a native Californian and a self-taught entomologist, whose latest discovery is the enemy of the codling-

The first important discovery made by Professor Koeble was the finding of the parasite of the cottony cushion scale, which at one time threatened to destroy the orange and other citrus fruits of California. He made the discovery in Australia, where he found a small grub feeding upon the scale. He procured the grub, raised it to maturity, and found that it developed into a small bronze-winged bug known as a ladybird. He procured a strong colony of the ladybird, and sent it on to Mr. Craw. But in the meantime he made another discovery, and that was that the ladybird also had its parasite, which was designated a secondary parasite. In order to cleanse the colony of ladybirds it was propagated in close confinement and the secondary parasites killed. This was done by building glass houses over two orange-trees in an orchard.

It was found that when once freed from its parasite the ladybird increased at an enormous rate-in fact, a single female would lay two hundred and fifty eggs every forty-two days the year through, so that the increase of a single pair in one year would run up into millions. The ladybird was successfully propagated in California, and its progeny being distributed among the fruit-growers, actually saved the citrus industry from destruction. In a remarkably short time after the ladybird of Australia had been set to work the cottony cushion scale disappeared, and has since given no trou-

Acting upon the experience thus far gained, California has steadily gone on conquering the fruit-pests, and has thus achieved the first place in the Union as a fruit-growing State. The horticultural interests of the State are under the supervision of a horticultural commissioner, whose headquarters are at Sacramento. For many years Mr. Ellwood Cooper has acted as commissioner, and under him was Alexander Craw; but within the past year the latter resigned his position to take up a line of important entomological work under the Hawaiian Government. Mr. Edward M. Ehrhorn was appointed in Mr. Craw's place, and Mr. C. K. Carnes Chatham Fanning Mill **REASONS:** 

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financial value to you personally. If we knew which reason was yours, we would write you a personal letter and convince you that a Chatham Fanning Mill (1st) can be bought on time—thus paying for itself; (2d) is not an implement whose buying you can afford to put off and neglect, if you are a progressive, money making farmer; (3d) is acknowledged by the Agricultural press in general and by thousands of users everywhere to be the very foundation of agricultural success, striking at the root, literally, by cleaning all seed grain, enabling you to sow no weeds and only plump seed, and gathering many additional bushels of grain per

acre—each acre—each season.

The farmer who reads farm papers has no right to be uninformed on this subject;

acted as horticultural inspector. The quarantine office and propagation laboratory of the department are in the Ferry Building, San Francisco.

The next step was to take notes of all the insect pests to be found in Cal-This investigation proved that they had all been introduced from foreign countries. In accordance with the original idea, search was made for the natural homes of these pests; for it was considered a logical conclusion that if the natural home of one of these pests could be found, there, also, would be found its parasite. To accomplish this it was necessary to trace the history of the pest back from California to the country from which it was introduced. An exhaustive examination was made of all procurable entomological works, and then the searcher started out to hunt down his game. His mission was world-wide, but despite the magnitude of his field of research, and the fact that at times he followed false scents, the pest was at last run down.

In the natural home of the pest the work assumed unusual complications. Being kept in check by its parasite, the people of the country were not aware that it was a pest, and consequently the searcher was thrown largely upon his own resources. He actually had to camp on the trail of the nest, and make a study of its lifehistory, in order to discover its anti-

Having discovered the pest and parasite in their native haunts, the next thing to do was to secure the parasite, freed from any secondary parasite, and get it in shape for transmission to California. It was necessary to time the hatching period with the departure and arrival of steamships. The next thing was to procure a live plant infested with the pest. The plan was generally placed in a glass case, so as to keep the parasite from it until it had become thoroughly infested. As soon as dates for sailing were determined, the plant was taken out of its glass case, and the parasite allowed to get at it. As soon as the parasite finds the scale it proceeds to lay its eggs beneath it; and very quickly the plant becomes laden with eggs; then it is hustled off to the steamer, and placed

in cold storage. If .everything has been timed rightly, the eggs of the parasites will hatch during transit, and the insect will have gone through its various stages of development.

In the meantime all arrangements for the reception of the parasitic family have been made at San Francisco, and if all goes well on the voyage the insects will begin to issue in their matured form upon their arrival. After the horticultural officials have become thoroughly convinced that the parasites are affected by no secondary parasites, notices are sent out to all fruitgrowers in infected districts of the arrival of parasites and their readiness for distribution.

At the same time measures are taken in the laboratory for propagating more of the insects, so that there will be plenty to go around. First a large, well-lighted, glass-inclosed room is made use of. This is kept at an even temperature. In the room are growing plants infested with the scale or pest under treatment. Each plant is kept in a breeding-case covered with glass and insect-netting. The parasites are placed upon the scale-infested plants, and under favorable conditions will multiply quickly into thousands.

The device employed in the propagation of beneficial insects vary somewhat in their design, being calculated to suit the different ones treated. For instance, some of them are in the shape of minute flies that are hardly visible to the naked eye; others are in the shape of beetles commonly called ladybirds. Each pest has a ladybird or fly peculiar to itself, which lives upon that pest and absolutely nothing else. They can not even be starved into feeding upon anything else, their digestive organs being so constituted as to prevent their subsistence upon vegetable matter.

This matter of exterminating insect pests is now so thoroughly understood by the fruit-growers of California, and so much confidence is reposed in the manner of treatment, that no sooner does an orchardist discover a new pest upon his trees than he forwards samples of it at once to the horticultural commissioner in San Francisco, in order that the subject may be studied and a remedy found in some parasite. The pest is then identified by experts, and its proper parasite sought for.

The propagation and distribution of beneficial insects has become quite an art in California. In order to capture the reared insects for shipment, the breeding-case is darkened all around the outside, leaving the light at the top only. Then a lid is placed on the top of the case, the lid having been perforated and glass tubes placed in the holes. The light enters the tubes, and the insect naturally crawls toward the light, and soon finds itself within the tubes. As soon as each tube contains its full quota of parasites it is taken out, and replaced with an empty one, and this process is continued until the breeding-case has been depop-

ulated. The insects are then sent out to the fruit-growers in infected districts through the mails. In the bottom of each tube is packed a little damp moss of the variety that does not turn sour. The open end of the tube is closed with cotton, which confines the insects, and at the same time admits sufficient air for the creatures to breathe. This arrangement is then placed in a mailing-tube open at both ends. In the lower end of the tube a cork is placed, and the glass tube containing the insects is placed in the mailing-tube and against the cork. In the other end of the mailing-tube another cork is placed, but the cork is so cut as to have an opening for the admission of air. They are then sent out by letter-postage, the stamp being placed on the tube, and over the cork, so that in cancelling the stamp at the post-office the blow falls upon the cork and does not endanger the glass. A card of instructions is sent out with each colony.

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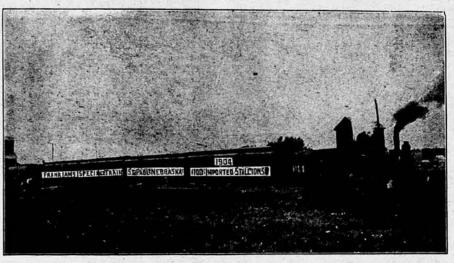
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For sale, an extra fine lot of young boars large enough for service. Bronze turkeys, Barred Plymouth Rocks and Brown Leghorn chickens for sale.

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Rockdale Herd Duroc - Jerseys One hundred head of March and April pigs for the fall trade. Prize-winning strains and good individuals and every thing sent out guaranteed to be as represented. Write me your wants.

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Prince 17799 and Red Rover 27685 at head of herd.
Young boars and bred and open grits for sale.
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No sows nor gilts for sale, males only. Visitors always welcome. Write me. W. F. GARRETT, Box 210, Portis, Kans.

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Best of breeding and individuality. Pigs of both sexes, not related, for sale. A square deal guaranteed. Write your wants, or call and see hogs. Visitors always welcome.

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Three hundred head in herd. Bred sows and sows with pigs at foot for sale. Sixty choice spring glits, both bred and open for sale. Also twenty April boars by Royal Top Notcher and some choice yearlings. All of the big-boned, growthy kind. Visitors welcome, and prices right.

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has some fine spring boars and gilts, and four bred gilts. Sunshine bred; also Rose Comed White Leghorn chicks.

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Twenty serviceable boars at special prices for next 30 days stred by Black Perfection 37132, Nilck Perfection Sep304, Perfection Now 32580, and Ideal Perfection They are lengthy and good-boned pigs, with plenty of finish, Write me description of what you want and I will guarantee satisfaction.

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Herd Boar-Klever's Perfection' Seven of his get, dams Wilkes bred, won I second, 3 firsts in class and 3 sweepstakes over all breeds at Kansas State Fair 1904, 150 head similar breeding for sale. Prices according to quality and in reach of all. Farm I mile northeast of town.

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For sale, at reduced prices, for the next thirty days, four fancy yearling boars, and fifteen tops of last spring's

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Bulls, bred helfers, and cows with calves at foot sired by Lord Mayor 112727, Knight Valentine 157065 and Golden Day for sale. Helfers bred to Golden Day and calves at foot by each herd bull. For ready sale, 25 yearling bulls.

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> Public Sale November 28, 1904. WM. WALES, Osborne, Kans.

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Breeder of Pure-bred Shorthorn Cattle.

Herd bull, Imported British Lion 188692. Bull and heler calves at \$50.

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Ten fine young bulls for sale—all red. Red Laird, by Laird of Linwood, at head of herd. F. C. KINGSLEY, Dover, Shawnee County, Kansas.

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Glitspur's Knight 171591 at head of herd. Young buils ready for service for sale.

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Two Scotch bulls in service. Representative stock for sale Address

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At Archie, Mo., December 6, 1904

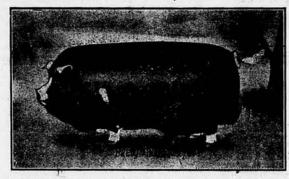
Contributed by Mr. A. E. Schooley, 25 HEAD Austin, Mo.

That were sired by or bred to Predominator, champion Missouri State Fair, 1902, and sire of Nonparell, champion in 1904.

Contributed by Mr. J. R. Young, Richards, Mo.

That were sired by Champion Missouri's Black Perfection, Chief Perfection 2d, Perfection E. L., and others.

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Send now for catalogue and be sure to be present. Archie, Mo., is on the Missouri Pacific Railroad.

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ANDUNUALE, KANSAS, IMUKSUAY, DEG. 15, 1904

### 40 HEAD 40

This will be a closing out sale and will consist of cows, calves, and herd bull. Beau Gondolus 133277, a son of Beau Brummel 51817 at head of Cows trace to Lord Wilton, Grove 3d, Anxiety 4th, and Boatman.

In connection with the above sale G. B. Scott will sell

## **HEAD OF POLAND-CHINA HOGS**

These hogs are thoroughbred and registered.

Sale will begin promptly at 10 o'clock a. m. Free lunch at noon. Sale under cover. Come rain or shine. For catalogues address J. A. CARPENTER or G. B. SCOTT, Carbondale, Kans.

COL W. Q. HYATT, Auctioneers.

# 50 Head 50





**Percheron Stallions and Mares** 

Coach Stallions, Big Black Mammoth Jacks and Jennets

At Sale Pavilion.

Ottawa, Kans., Thursday, December 15, 1904

1 O'clock p. m.

S. A. SPRIGGS, Westphalia, Kans. JOE FOX, Greeley, Kans. D. A. ZOOK, Eight Mile, Mo.

For Catalogue write S. A. Spriggs, Westphalia, Kans.

Col. R. L. Harriman, Bunceton, Mo., Col. J. W. Sparks, Marshall, Mo., Auctioneers.

# BREEDERS' SALE

At Bloomington, Ill., in Coliseum, January II, I2 and I3, I905.

Sale Commences Each Day at 10 O'clock a. m.

GO REGISTERED CATTLE To be sold Wednesday, January 11, Aberdeen-Angus, Galloways, and Shorthorns, breeders in the State, and out of their show herds, and of herds that won at St. Louis and the State Fair this year. Consignors: L. H. Kerrick. Bloomington, Ill., Aberdeen-Angus; A. J. Dodson, Lexington, Ill., Galloways; Ed. Speers, Cooksville, Ill., Galloways; Wm. Ritter, Arrowsmith, Ill., Shorthorns; M. P. & S. E. Lantz, Carlock, Ill., Aberdeen-Angus; AND OTHERS.

100 REGISTERED HORSES

To be sold on Thursday and Friday, January 12-13, PERCHERONS, French Drafts, Shires, Clydesdales, and Coach Horses, Stallions, Mares and Fillies. These horses are consigned by the very oldest breeders in the State and out of the very best families and of show herds that represent 1,000 premiums to their credit. This will be one of the the largest sales of pure-bred horses and cattle ever held in the State. Each consignor is going to the sale with the very best he has, as we want to make this a breeders' annual sale. They are "the wide-as-a-wagon kind" and some of them weigh 2,500 pounds. Among the consignors are Hodgson & Pichard, Ottawa, Ill., Percherons and Shires; John C. Baker, Manhattan, Ill., Percherons and Shires; John C. Baker, Manhattan, Ill., Percherons, El Paso, Ill., Percherons and Clydesdales; S. Noble King, Bloomington, Ill. Percherons and French Drafts; D. Augustine, Carlock, Ill., Percherons; C. W. Hurt, Percherons; and eleven other consignors.



Catalogues ready December 20. Address

C. W. HURT, Manager, Arrowsmith, Illinois.

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