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BREEDERS' DIRECTORY.

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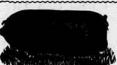
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The Stock Interest.

OUR CATTLE INDUSTRY AND ITS FUTURE

An address made before the Kansas State Board of Agriculture, at Topeka, January 10, 1896, by L. A. Allen, of Kansas City, Mo.

(Continued from last week.) My observation has been, for the last ten years, and for that matter for the last twenty years, that the average price for 1,200 to 1,500-pound beef steers in the first six months of the year has been from 41 to 5 cents per pound, and for the last six months of the year has been from 4 to 41 cents per pound. I may not be correct in the exact average price, however it will do to illustrate by which to govern the future. If cattle feeders generally would base their future operations somewhat on this idea of results, I do not believe they would have cause to seriously complain of the prices they would have to sell their cattle at, when fed out and fatted. It is no sign that if fat beef cattle sold the first half of 1895 at from 5 to 6 cents per pound, or that in the last six months of 1895 the same kind of cattle sold for from 31 to 41 cents per pound, that the same will be the result a year hence. We are too apt to govern our future transactions by surrounding conditions and theories advanced at the time of the undertaking. For instance, when a shipper takes his cattle to market, and the prices realized are extra low, he is told by the "knowing" ones and led to believe that the cattle market generally has gone to the bowwows. When, on the other hand, he goes to market and realizes a high and very profitable figure, he is then told by these same "knowing" ones that there is a big shortage in cattle, and that they are bound to sell higher, and that there are no cattle in the country, and the quicker he gets hold of some the better off he will be. The uninitiated and inexperienced man on a bad market will do nothing for the future, while on a good market he will load himself up with high-priced feeders with disastrous results; but the old experienced handler will wink his eye and say: "Boys, I have been there before. I will base my future transactions, not on the extreme low or high prices that I have just realized for my fat cattle, but on the average of the results of my sales in the last ten years." The cattle business is not one to jump into when they are selling at much above the average for past years, nor is it a business for farmers to keep out of when they are selling below the average. A farmer or ranchman, when once he makes up his mind to go into the cattle business, should stick to it, study it in all its details, take counsel from those who have made a life study of the business, and base their future operations accordingly. For the past twenty or thirty years my observation has been that the most money made in cattle has been in their growth. The full-feeding and preparing cattle for slaughter should be with a great majority of farmers a secondary consideration. I firmly believe, that had the farmers of the West, and Kansas in particular, commenced ten or fifteen years ago with a little bunch of stock cattle, gradually increasing their numbers, and given them proper care and attention, that there would not have been so much said about farm mortgages as has been in the last few ears. I admit that at times there has been more profit in buying big cattle and full-feeding them, but to take a period of ten or more years, the average profits to those in the stock cattle business have been greater than to those that jump in and out in the fullfeeding of big steers. Raising and growing cattle is one thing, and full-feeding is another. There are plenty of experienced cattle feeders, with ample capital and credit, who have given years of time to the full-feeding of cattle and have made a study of fattening cattle at the least cost in the quickest time, that have made a success. The full-feeding of cattle and preparing them for market is a trade or profession, as much so as that of the merchant, mechanic, doctor or lawyer.

and more to be a matter of necessity every year, brought about by competition in feeding cattle in different parts of the country, and by the variety and kinds of feed used. The old idea that when a farmer had plenty of corn, a feed lot by the branch or a pond, and a bunch of cattle regardless of quality, was, and is yet, thought by many to be all that is necessary to commence fullfeeding. The new kinds of feed introduced in the last few years have almost revolutionized the old method of fullfeeding cattle. I refer particularly to cottonseed meal, oil cake and other mixtures of feed that were not thought of years ago. Formerly it took from five to eight months to fully fatten a three or four-year-old steer on corn. To do so now might prove profitable and it might not, but to do so a good strong price, above the average, must be realized, and that with feed at the minimum prices. Scientific cattlefeeding as now practiced by many, fattens cattle good enough for any market, in from three to four months, and especially so when the cattle intended to be fed have been properly prepared to feed, as they should be in all cases. Cattle intended to be fullfed should be kept growing and improving in flesh from calves up and never allowed to shrink in the least at any time. Scientific feeding consists in realizing the greatest increase in the weight of the animal at the least cost of so doing. Such fat-producing foods as can be easily digested and give the greatest warmth fatten quickest. I shall not attempt to go into full details as to the best mode of preparing feed for cattle, but will say that crushed corn, or meal with a little bran, fed regularly twice a day in such quantities as the cattle will just clean up will fatten fast. While there are scarcely any fattening qualities in bran, it ferments in the stomachs of the cattle and aids digestion. It is not the amount that cattle eat that fattens them quickest, but it is what they digest easily and assimilate with the blood. A mixture of oil cake, cottonseed meal, or ground oats with corn, makes excellent feed for cattle when properly fed, and fattens quickly. Good, pure water is very essential, in fact, it is half the process. When it is possible to do so, water to be given to cattle should be as near the temperature of the blood as can be. Nearly 75 per cent. of the animal is water; therefore, it can be seen the greatest essen-tial is plenty of pure, fresh water. For feeding cattle, and, for that matter, any other kind of stock, if I had to take one or the other, I would rather have plenty of good water for cattle, with short feed, than to have plenty of feed and short water. This water question has hurt more cattle owners than any other one thing.

The first thing to be considered in going into the cattle-raising or feeding business, whether on farm or ranch, is, what is the amount and quality of the water to be used? Another and very essential thing for the successful handling of cattle, especially in the winter, is good shelter. Cattle, to do well in winter, should be kept comfortably warm, suitable to their natures. Cattle will shrink more in one cold rain or snow storm than they will gain back in a week or ten days of good weather, after causing enough loss in labor, feed and time to have paid expense of furnishing shelter for the entire winter. In this climate it is not essential to provide expensive parns, as it is further north and east. Most anything will do that will protect the cattle from the bad weather.

Coming back to the stock cattle business, the old saying that "If anything is worth doing at all, it is worth doing well," very properly applies to those engaged in the breeding, raising and growing of cattle, to make it successful. In short, the scrub must go. It does not cost any more to raise and feed a good animal than it does a bad one, and the results are much more satisfactory. I believe our American breeders have brought up the various beef-producing breeds to a higher standard of excellence than the Europeans ever did. The farmer or ranchman, at reasonable prices, can secure

that can be crossed with the ordinary stock cows of the country that will produce beef good enough for the most fastidious tastes. With the advent of handling cattle in the form of dressed beef with cold storage and in refrigerator cars and ships, the value of the big, 1,500-pound steer began to wane. The well-fatted, nice, smooth, tidy 1,100-pound to 1,300-pound steer finds a quicker market at better proportionate prices than does the heavier animal. It is only a matter of time, when the Western raiser of cattle will find it more profitable to dispose of his surplus yearlings and two-year-olds (unless he is especially situated to develop to maturity) to the farmers, who are better prepared to quickly develop the young animals for beef. Many of the Texas and Western raisers have adopted this method of disposing of their surplus, and have found that the risk of loss is less, with proportionate profits greater; besides their ranges are relieved and their numbers kept within the capacity of their ranges and pastures. farmer can afford to pay proportionately more for a young animal than he can for an older one, for, as before stated, the growth to the farmer, at a light expense, is where he makes the most of his profits. During my experience of handling cattle thirty years in the West, I have never known of a single failure in the cattle business, where the owners confined themselves strictly to the handling of mixed stock cattle, or steer calves, or yearling or two-year-old steers, where they properly invested their own capital, or if they borrowed a small amount proportionately to their own, and then had a good place to keep the cattle where they could prevent loss, and then economically manage the business. It is in the cattle business as it is in other branches of trade, many undertake too much for the amount of capital they have. The complaints of the business, as not being profitable, come more from this class of dealers than any others. What is known as "cattle paper," that is, notes secured by mort-gage on cattle, at a reasonable value of the cattle, is now regarded by financiers and money lenders as being first-class paper, because in times of stringency it is more easily realized on than most any other class of commercial paper. Cattle always have a cash market value, and when bought at reasonable prices and properly cared for, their value increases. In other words, the principal increases in value sufficient to more than pay interest and other carrying charges. It is said there are some defects in the chattel mortgage laws. If there are, every honest cattle dealer should rise as one man and see that such laws are made that no one can escape the full penalty if they are violated. An honest man who borrows money cares not how stringent mortgage laws are made, for he intends to pay his obligations anyway; but for the good of his business, and the obtaining of money at reasonable rates of interest, he should assist in the formation of laws that would absolutely secure the lender. The great majority aim to do the proper thing at the appointed time. Unpaid cattle paper is monopolized by a few who try to evade their obligations through the technicality of defective laws. When it is done it is heralded about and brings discredit

the country and the cattle-raising grounds of the plains and mountain valleys. In consequence, many thousands of cattle from the West and South find pasturage and feed in the State, thereby utilizing the surplus grasses and feed, to the great benefit of its people, affording them opportunity to secure cattle for their own purpose at reasonable figures.

more or less upon the business.

The climate of Kansas is excellent, the kind of grasses grown in the State and the varieties of feed that can be produced for cattle are second to no State. Among the kinds of feed which can be raised by every farmer are Indian corn, cane or sorghum, Kaffir corn, millet and alfalfa. In average seasons, perhaps, corn would be the best to raise Scientific cattle-feeding is coming more from these breeders, strains of blood in the eastern third of the State, with Exchange, he has to keep several assist-

some of the other varieties of feed mixed in. The farmers in the middle and western part of the State will find it on an average most profitable to plant largely the other varieties of cattle feed, and handle cows or young cattle. Let them stick to them through thick and thin, and I will guarantee the results to be satisfactory.

In the following I may somewhat digress from the subject, but believing it a small matter of information to many engaged in the cattle industry, I have taken the privilege of injecting it into my address, and hope I may be par-

doned for so doing.

The people of the Missouri valley, and Kansas in particular, are fortunately situated, in having so close to them, within the borders of their State, one of the best live stock markets in the United States, if not in the world; one that has had a steady growth from its beginning in 1871 up to the present time. The total number of cattle received at Kansas City in 1871 was 120,827 head; in 1895 it was 1,613,454 head, and the total for the twenty-five years was 16,846,535 head, exclusive of calves, since 1870. Including the 490,786 calves received since 1870, there was a grand total of 17,347,321 head.

The Kansas City Live Stock Exchange is an organization composed of about 300 members, whose business center is at the Kansas City stock yards. Its rules and by-laws are to protect its members and the live stock trade in general. With the volume of business done at Kansas City, it could not be done right without strict rules, and then firmly enforced. It established a uniform rate of charges for handling stock, and a system of proper dockage. Its rules protect the farmer and shipper and compels honest and fair dealing Heavy penalties are imposed on any member that violates its rules. All who do business for the public at the stock yards must have a membership in the exchange.

The Kansas City Stock Yards Company have steadily kept pace with the wants of the business, making all necessary improvements and additions demanded by the trade. At the present time their investments amount to \$7,500,000, with the most commodious live stock exchange building and best equipped stock yards in the United States.

The large packing-houses at Kansas City have increased their slaughtering capacity from year to year, until they are now able to handle almost the entire number of fat cattle, hogs and sheep offered for sale on the Kansas City market.

Live stock commission merchants in their business relations to the farmers and cattle producers should be of the most friendly character. Agents are necessary in all the commercial marts of the world. In no other branch of trade is the agent more a matter of necessity than he is to the producer and shipper of cattle. A good com-mission man should be honorable, industrious, financially responsible, a thorough judge of his business gained by long years of active experience in the live stock trade. He should be apt and quick to discover the value of the stock he is handling, and sell or buy any kind of stock on its merits. When the shipper and producer select such a man, firm or company in the market to do his business, he should not be per-Kansas, being in the Missouri valley, suaded to make a change without good occupies an enviable position. It lies reasons. When a farmer or shipper directly between the best market in lets 3 commission firm know that he is going to do his business regularly with them, they will take an interest in doing his business, give him good service and good advice, and keep him well posted. The cattle shipper that jumps about from one commission house to another is seldom pleased, and the commission man does not feel the interest in such shipper's business that he otherwise would. The old saying, "When you get a good thing hold it," very properly applies to the countryman after he selects a good commission company in the market to do his business with.

> The live stock commission man's business is by no means an easy one. He has to live in the city on heavy expense, he has to have an office in the

ants, and he has to keep well posted on the market value of different kinds of stock, and hold himself in readiness to do his customer's business properly at all times, hot or cold, rain or shine. To succeed, he must have an extensive acquaintance and liberal patronage, much more than one not familiar with the details of the business would think; besides, the commission man has to be financially responsible to his customer for the value of the stock he sells, as well as guarantee the title to the purchaser. The agent represents his principal, and the principal should protect his agent.

For the betterment of agriculture, and the live stock industry in particular, our national government has wisely organized the Bureau of Ani-mal Industry, which has been of great benefit to the people in establishing a system of inspection of all cattle and meats intended to be consumed, and the adopting and maintain-of quarantine lines against Southern cattle that would be liable to give Texas fever. The organization of State Boards of Agriculture, of which Kansas has no superior, has done more for the good of agriculture and those engaged in the cattle industry than all

Agricultural Matters.

other organizations.

Is Alfalfa a Failure on Uplands?

EDITOR KANSAS FARMER:-It has been fully demonstrated that alfalfa on bottom lands is a pronounced success in the western half of Kansas. When alfalfa on uplands is not able to withstand the crucial test of dry seasons for successive years, it is said to be a failure. If, from any cause, it ceases to be a profitable crop after the third or fourth season, it is pronounced a failure. But why? Red clover in the East is not considered a failure because after the second season it is plowed up.

Farmers in the Eastern States grow red clover as one of a rotation of crops, first, because it is a valuable feed, both as hay and pasture. Second, because it is a valuable fertilizer. Its value as a fertilizer is the more important because timothy and other grasses are equally valuable as feed, but clover, in addition to its feeding value, is en-dowed with the faculty of extracting nitrogen from the air and depositing it in the soil. Alfalfa, being also a member of the clover family, possesses in a high degree the same faculty, and is therefore a fertilizer; that is, it gives to more than it takes from the soil, and therefore leaves the soil richer because it had lived in it.

In the function of taking nitrogen from the air and storing it in the soil, and for other reasons, alfalfa, it is claimed, is a more valuable fertilizer than red clover. Its roots are larger and they penetrate the subsoil deeper, and when they are cut with the plow and decay the perforations resulting permit the air and water to descend more deeply into the subsoil and bring up from below and utilize in plant growth the food elements stored there.

While in Colorado, a few years ago, I learned that in the best farming districts alfalfa was plowed up every third or fourth year because of its high value as a fertilizer (not because it killed in the preparation of the soil. out) and the ground planted to some other crop.

Farmers in Kansas are beginning to "catch on." A large alfalfa-grower in Osborne county informed me, a short time ago, that a portion of his alfalfa on upland had killed out. He plowed it up and planted to sorghum. On the ground thus enriched the yield, he said, was one-third larger than on ground not so enriched.

From these well-established facts, we reach the conclusion that alfalfa is absolutely a substitute for red clover in central and western Kansas, and that it is to this plant we must look for the means of restoring fertility to our soil lost by successive cropping. With carefully-prepared ground the plant will yield good paying crops on uplands in central Kansas for as much as three or four years, after which, if, by reaTHE GREAT REFORMER IN A NEW RÔLE



Dr. Parkhurst and Young Men

In twelve familiar "talks" Dr. Parkhurst, the great New York preacher and reformer, will address himself to young men. feature that will continue through the year of 1896 in



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Philadelphia

no more a failure than is red clover in Eastern States, which is plowed up usually after the second year, because it ceases to be a profitable crop.

Alfalfa seed sells at from \$3 to \$4 per bushel, and since from ten to fifteen pounds per acre is sufficient, it costs no more to reseed alfalfa than red clover. The only increased expense is

M. MOHLER.

The Quarter Section Farm Best.

EDITOR KANSAS FARMER:-I read Mr. Branch's article on the land question, but feel satisfied, from what I have seen of Kansas, that he is mistaken in some of his observations, or rather deductions from observations. If we look at the condition of English agriculture we can very easily see that, had the holding remained in the hands of the people in small holdings, the land would not be lying idle for want of paying to farm it. The bonanza farmer undoubtedly can use heavier machinery, and probably more, but the using of expensive machinery upon his large farm does in no wise decide that it is advantageous to the drowning out of small farmers. My deductions from observations are that the farmer who

paying close attention to his farm, using such machinery as he can economically, is the happy farmer, whose lot may be envied by those whom he calls bonanza farmers. His happiness comes to him from the fact that he is making a comfortable living, while many of those who have been trying extensive farming have been sinking money yearly. True, land has been going into the hands of syndicates, trusts and non-residents at a lively rate for several years, but I doubt whether the author of that article can point to a single tract of land gone into such hands where the purchaser had not rather receive the amount he was interested in before he became possessor, and would take that amount to-day in return for his land.

I would not, to-day, if compelled to cultivate personally for ten years, take a half section of the best land in our county as a gift, and we have good land, while if I was able to I would pay a fair price for a quarter. There are many reasons why so many holdings have gone into the hands of syndicates, trusts, etc., but nowhere can it be shown that the desire was on the trust's side to gobble up lands, and if those syndicates ever

what their holdings cost them in dol-. lars and cents, it will be by again disposing of them to the quarter-section style of farmers.

I would like to have Alex. Richter explain why a poor man should put irrigation pipes twenty-four to thirty-two feet apart, and a man with plenty of means or "gold coin" eight feet. Does he mean that the twenty-fourfoot or thirty-two-foot give the best pro rata result, or that providence assists only the poor, and that the rich must lay pipe closer for same result? I would like to have him explain, as any one engaging in that line can't afford to do less than what will give J. D. RANCK. best results.

Hazelton, Kas., February 6, 1896.

Get a Home.

EDITOR KANSAS FARMER:-Mr. P. C. Branch, of Sterling, Kas., dated January 27, writes a very good article on the land question, and I am glad to see these questions brought before the minds of the people so they may seek out some stay to the impending evil. He points to some matters which are very true, and still I think that many farmers could own their own farms if they wished to do so. But while there son of dying out, it is plowed up, it is has a quarter section and sticks to it, expect to realize interest on half of is land that can be bought cheap, and

more that can be rented cheap, for that very reason they will spend their income in fine carriages and their other accompaniments, which takes all the loose cash of the farmers of to-day, rather than buy a place and economize in these expenses I have hinted at and try to pay on a place what they can save from their expenses. I know many a man who will say that he cannot save a dollar to pay on a home, that will spend \$50 for tobacco, which makes him a nuisance and his home a smoke-house or a spittoon. Then 25 or 50 cents a week for coffee and sugar, which both impoverish the blood and shorten his life, while he has good, pure water to drink. Now see, \$50 from tobacco and \$13 or \$26 from coffee alone would make \$63 if the lesser quantity, \$76 if the greater. Add this amount to what he annually pays for rent, and see how long before he would many a man pays more for rent of a farm than the interest and a fine payment on the principal of what the farm | the "underflow." cost each year, and still would rather rent than buy and put the improvements he makes on rented land on a place of his own. I know a man who owns nearly 5,000 acres here in Kansas that hired the money in the Eastern ness. The method of the measure-States to buy with at 3 per cent. interest, hired the land broken out, and the second year I heard him say he had made enough off the two crops to pay all outlays (but the principal) and the interest on full amount paid, and had also cleared 3 per cent. on the investment. Now, if a man can do that just to make money, what ought a man to do to make a home? And many a man who has a home, for some idea which he gets into his head, will go and mortgage his home, thinking he can pay it development of the questions involved off in a year or so at most, and then goes on living just as fast as though there were no mortgage to pay off. Well, the consequence is, nine times out of ten, that the mortgage takes the place and he loses his home and becomes either a renter or a camper tramp. Now, I advise every man to get a home, if it is no more than an acre, where he can put what he makes or saves. A. J. BENNETT, SR.

Anness, Kas.

Irrigation.

RETURN OR SEEPAGE WATER.

By Prof. L. G. Carpenter, of Colorado Agricultura

One of the many questions pertaining to irrigation is the effect which irrigation has upon the streams and lands in the irrigated sections. It is interesting scientifically and it is valuable practically. The area of our arable land so far exceeds the visible water supply that questions and investigations relating to the development or conservation of water reveals future agricultural possibilities of the State, means the expansion of the agricultural area, and the increase of the constituency whom this college is especially founded to benefit, and from whom it may expect to receive support.

The seepage waters of the streams have gradually attracted attention with the greater age of irrigation prac-tice. It has been found that though streams may be drained dry, within a short distance there may be a flourishing stream, and this without visible year, irrigation at the head waters of tributaries. With the greater demand a stream is an actual benefit to the for water, this becomes of considerable economic importance and many ditches

are constructed to utilize this water. While this increase is most notable in the lower stretches of the streams where the old ditches are usually located, the importance to new ditches is the same as if the flow could be used directly by them, for it lessens the draft of the old ditches from the stream and thus enables the newer ditches to secure an equivalent increased supply.

The first question in connection with this subject was the simple one of "How much is the return or seepage water?" From this with fuller knowledge gradually develop other questions: Is the increase the same throughout the year? Is the seepage increasing? May it be expected to increase in the future, so that more land may be ried on.

brought under cultivation from this source? Does this increase come from water which is applied in irrigation, or is it an inflow from the natural rainfall? Can it be determined? On the certainty with which these questions can be answered depend certain inter-State questions relating to water rights which are looming up in the future, and may be the source of some trouble. If from irrigation, what proportion of the water applied to the land returns to the stream? How much water or how much land may be expected to yield a water right? Incidentally it involves many other questions, of which the one of the most immediate importance, perhaps, is the speed with which water travels underground. Of this we must have a more definite knowledge before we can answer the host of questions relating to the supply of water from wells, from seepage ditches, have a small farm paid for. Again, and to the general development of underground water, and all those ques-tions arising from the general belief in

To some of these questions the answers are shown with more or less clearness from the investigations of the past five or six years, to others there is still more or less indistinctments may be of sufficient interest to describe. The process consists essentially in measuring the amount of the water in the river, measuring all that which flows into the river from visible sources, and all that which is drawn out. In the first measures an attempt was made to close all ditches. In the later ones this has been given up as useless and unnecessary, but the amount the ditches were drawing has been carefully measured. With the much more care has been taken than was at first realized to be needed, and the measurement has been extended down the Platte, which gives the means of answering some of the problems which have arisen in the smaller stream.

As an illustration of the importance of the seepage water, we may mention that in the last measurement of the Poudre, 160 cubic feet per second was being received from the canon. This was all taken by canals within the first ten miles, and the bed of the river was dry. Nevertheless, though numerous canals were drawing water, the river at its mouth had 120 cubic feet per second. This, if considered of the value at which water has been held during the irrigation season by the farmers, would be worth nearly \$4,000 per twenty-four hours. On the Platte, starting in with 800 feet at the mouth of the Poudre, 700 cubic feet per second were taken out by the canals before Sterling was reached, yet there were 600 feet left, or there was a gain of 500 feet, worth at the above value \$15,000 per day. This is less than its capability to increase the agricultural products of our State if used in irriga-The investigations seem to show that

the amount is increasing from year to year, and gives reason to believe that the ultimate amount has not yet been reached. The flow benefits the lower reaches of the streams, makes the river more constant and more reliable, especially in the fall and winter season. Furthermore, it indicates the important fact that for most of the The importance of this in its bearing upon disputes between the agricultural communities at the extremes of the water courses may only be suggested. The measurements of a previous year gave some reason to believe that the water came from irrigation. Results of this year support that conclusion, and make it extremely probable, if not certain. This in its ultimate bearing I consider as one of the most important facts developed. The present year has been especially valuable for the investigation in its bearing upon this question, as the year has been one when the effect of the rain would be noticeable if the increase from rain rather than from irrigation. But this year, as in two others, we found an actual loss in the stretches of the river where irrigation was not car-

Plant Trees and Orchards in 1896.

The old reliable Hart Pioneer Nurseries, of Fort Scott, Kas., have large supplies of choice stock for sale at special prices. 600 acres in nursery, 240 acres in orchard. Extensive grow-ers for the wholesale trade. Write and obtain prices before placing your orders elsewhere. No transfer or exposure of stock, We take up, pack and ship from the same grounds. Send for our

Illustrated Planter's Catalogue and Price List.

We solicit your correspondence and invite inspection of our stock.

Reliable Agents Wanted.

HART PIONEER NURSERIES,

FORT SCOTT, KANSAS.

Peoples Depending on Irrigation Not

Early Ohio Grape, Six Weeks Earlier Than Concord.

"Stayers." A most curious, startling if entirely correct but not especially disturbing to the present generation, statement regarding irrigation comes from a man in Phoenix, Arizona, who is right in the midst of artificial water supply.

He says: "If the lessons of history prove any thing, they clearly demonstrate that all races who have depended upon irrigation for subsistence have perished from the earth. The Egyptians have been slaves to some carnivorous conquerors since the dawn of history, and now cultivate the valley of the Nile for the beef-eating English. The dense population once cultivating the valley of the Euphrates by irrigation has perished from the earth, and nothing remains but a gloomy history and the mounds of mud which mark the

ruins of Babylon. "The Chinese cultivated the soil by irrigation, and 50,000 meat-eating Tartars conquered the Empire of 400,000,-000 irrigators, and their descendants hold China as a conquered country to this day. The Carthaginians subsisted by extracting a support from the deserts of northern Africa by means of irrigation, and the ruins of Carthage attest the ephemeral effects of irrigated subsistence on the decay of races. The Jews cultivated the little valley of the Jordan by irrigation, and they are dispersed over the face of the earth.

"In Italy the statistics of 2,000 years (see Minister Morse's report) show the effeminacy and deficient longevity of the Italian irrigators. The irrigating Moors were expelled from Spain by the hardy mountaineers of the Iberian pen-insula. In America, less than a thousand Spanish buccaneers conquered the multitudinous subjects of Montezuma, who depended on irrigation for subsistthe only means of exsistence, a handful of Spanish pirates conquered the inhabitants and carried off their golden

"In Arizona and New Mexico, a prehistoric race, who existed by irrigating the land, have perished from the face of the earth without leaving an enduring monument."

SUFFERERS FROM COUGHS, SORE THROAT, etc., should be constantly supplied with "Brown's Bronchial Troches.

Publishers' Paragraphs.

Send \$1.35 to Kansas Farmer office for one years' subscription to Kansas Farmer and Chicago Weekly Inter-Ocean.

Western farmers desiring to sow clover seed this year will do well to write Iowa Seed Co., Des Moines, Iowa, for their cata-logue. This firm has been engaged in growing and selling choice farm and garden seeds for twenty-five years.

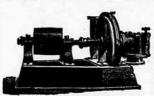
We have just received the January issue of The Coil Spring Hustler, and find it full of interesting matter pertaining to fencing. If any of our readers are not receiving that paper a copy will be mailed them gratuitously by addressing the Page Fence Co., Adrian, Mich.

When seeds may be had almost for the asking, there's no reason why any family should be without vegetables of their own raising. W. W. Barnard & Co., 186 East Kinzie street, Chicago, offer to send twelve packets seeds for 20 cents, and their handsome catalogue is free to all.

Many of Kansas Farmer readers are familiar with the New York Tribune, the paper upon which Horace Greely expended the best labors of a lifetime. We have per-fected arrangements by which we can furnish one year's subscription to Kansas FARMER and New York Weekly Tribune for \$1.25, received at this office.

We have received from the J. W. Miller Co., of Freeport, Ill., their annual poultry catalogue for 1896, which is one of the best and most valuable books we have ever seen. It is a regular "gold mine" for any one who keeps poultry of any kind. It tells how to make poultry pay, how to cure your fowls when they are sick, and how to build poul-try houses and yards. It illustrates and describes all the leading varieties of poultry, and is full of interesting illustrations and many valuable hints on poultry-raising that cannot be found elsewhere. The J. W. Miller Co. are extensive breeders of thoroughbred poultry, and their prices, which are given in their catalogue, for fowls and eggs are very low. Please notice their advertisement on another page and send for their catalogue, which only costs 15 cents; it is worth ten times that amount. Address the J. W. Miller Co., Freeport, Ill., and say that you saw their advertisement in this paper.

ONE CENT for a postal card is all it will packets of Rarc, Selected and Tested varieties of seeds, from 30 choice novelties, and a year's subscription to the best agricultural paper published. Send your name and address at once on a postal card, and say you want full particulars of Free Beed Distribution and \$500 prize contest. Address, Epitomist Publishing Co., Indianapolis, Ind.



IRRIGATION MACHINERY.

If you want the most practical, efficient and cheapest irrigation pumping machinery, write for catalogue of Centrifugal and Triplex Pumps, Engines, Boilers, Gasoline Engines, etc., to IRVIN VAN WIE, 717-726 W. Fayette St., SYRAGUSE, N. X.



Gossip About Stock.

Mrs. F. W. Ives, of Knob Noster, Mo., is the happy possessor of fifty Mammoth Bronze turkeys, which were scored last week by Judge Emery. They averaged 97½ points and Mrs. Ives challenges any poultry-raiser to show a better score.

Harry Killough, of Richmond, Kas., says Mrs. Ives' turkeys, no doubt, are fine, but that his Mammoth Bronze beauties are their equals in every respect, and he has plenty of them for sale also.

The Standard Poland-China Record Association is out with their annual statement, which shows a flourishing condition. For sixteen months, ending January 15, 1896, their receipts were \$6,411.27. The association has paid in dividends to stockholders the neat sum of \$6,865 since its organization. The Secretary for 1896 is Geo. F. Woodworth, Maryville, Mo.

Don't overlook the important closing-out sale on Washington's birthday (next Sat-urday), at Gardner, Kas., by J. O. McDan-ield, who offers to sell his entire herd of prize-winning Short-horn cattle, draft and coach horses and other stock to the highest bidder. At private sale he will sell or lease Pine Tree stock farm, consisting of 344 acres of highly improved land with modern equipment. Also the imported German Coach and Percheron stallion will be sold at private sale. It will pay any of our en-terprising readers to attend this sale.

R. Scott Fisher, Holden, Mo., writes in reference to his recent sale as follows: "There has not been a day this year that would not have been a better one to hold a sale, as a terrible storm raged in this vicinity the 12th inst., and continued until the 13th, leaving the roads almost impassable, consequently there were but few in attendance at my sale, and the small crowd was supplied before half the offering was sold. Col. Sparks made a strong effort, but the hogs sold very low. I will try to close out the balance privately at a sacrifice, as I must move and can't take care of what I have.

Mr. George Topping, proprietor of Bel-mont stock farm, near Cedar Point, Chase county, Kansas, reports, through our live stock field man, that his Berkshire and Poland-China swine are coming on first-rate. The poultry—S.-C. B. Leghorns, Barred Plymouth Rocks and the M. B. turkeys are the excellent condition and a large age. are in excellent condition, and a large egg crop is in expectancy for the coming spring trade. Last week he shipped a lot of purebred Berkshire porkers to Kansas City and topped the market on heavy hogs for that day, as the "Berks" most always do, especially if they be the kind that Mr. Topping breeds and raises. They are of the best blood, and rightly handled and grown by Mr. Topping.

Mr. Francis X. O'Neil, Treasurer, of St. Marys college, at St. Marys Kas., lately visited the Shannon Hill stock farm, and selected the fifteen-months-old bull, Shamrock, sired by Winsome Duke 11th 115137 and out of Queen of Shannon 6th (A. H. B., Vol. 37, page 547). The youngster is a red in color and possesses an even scale with quality and substance. In heart girth at 13 months he measured six feet four inches, also the same in flank. The youngster reached his new home last week and Mr. O'Neil, in acknowledging his arrival to Gov. Glick, proprietor of the Shannon Hill stock farm, among other things stated: "Shamrock arrived safely and in good condition. Everybody here is delighted with him and I am better pleased since I see him here. Kindly thank Mr. Chaffee, your manager, for the care and trouble he took in shipping him. Such is the high character of our new comer that visitors pronounce him the best in this part of the country and your herd is the talk of the

P. C. Bowen & Son, Cherryvale, Kas. write that they have concluded not to breed further, White Wyandottes, but say: "We have mated up another breeding yard of Barred Plymouth Rocks, making three grand yards in all of that grand generaland will also fow ordinary high-scoring yard of Rose-comb Brown Leghorns, the variety universally acknowledged to be the 'ne plus ultra' of egg-producers, as well as a grand fancy fowl, and in order to cut our prices down to a gold basis, which at present rules under a Democratic administration, we will sell eggs for hatching from all of our breeding yards at the uniform price of \$1.50 per fifteen, from which no reduction will be made, we preferring to hatch the larger part of them ourselves, raising the chicks therefrom for breeding purposes. We have just ordered a grand Barred Plymouth Rock cockerel from Mr. Sid. Conger, of Flat Rock, Ind., of his celebrated World's Fair winner strains that took the first premium at the Indiana State Poultry show last month, scoring 95 points, to head one of our breeding yards, and we confidently expect to get many grand birds as his progeny. Our four breeding yards comprise half an acre each of land, in the center of which is our poultry house, twenty-eight feet square, fitted up with all | 1, 1896.

modern conveniences for the health and comfort of the fowls, and our constant aim is to breed nothing but the very best obtainable, annually mating up our yards so as to obtain the very best possible results."

One of the greatest dispersion sales of registered Poland-China swine yet announced so far this year, is that of the herd known as Sunny Slope farm herd of prize-winning animals, owned by Mr. C. S. Cross, of Emporia, Kas. This herd won more first premiums and sweepstake prizes at four of the leading State fairs last year than did any herd in the entire West, and possibly more than did any one single herd in the United States. The reader will find on consulting the sale advertisement found elsewhere in this issue that all the show animals will go into the sale along with the entire herd as it is positively a closing-out sale. Mr. Cross and the manager, Mr. Leibfried, are especially desirous that any Poland-China breeder send for a free copy of the elegantly illustrated and best swine sale catalogue ever issued in the United States. Emporia is situated on the main line of the A., T. & S. F. railroad, also on the M., K. & T. road, which makes it easily reached from all directions. Col. F. M. Woods, the well-known auctioneer, will do the honors of the block and looks forward to the sale as being one of the most successful ever held in this country.

All our readers interested in beef cattle, especially the Herefords, commonly known as "White-faces," ought to be interested in the great closing-out sale announced else-where in this issue. The offerings will con-sist of the entire registered herd known as Rock Creek herd, that was founded in the early 80's by Thos. J. Higgins, formerly of Council Grove, Kas. The reader, if he will call to mind the Hereford cattle exhibits at the State fair circuit west of the Mississippi river in 1885, 1886, 1887 and 1888, will doubtless call to mind the great breeding

0.01 OF 1 PER CENT. ONLY, THREE DIFFERENT TESTS.

0.05 of 1 per cent. Only, AVERAGE OF 19 TESTS.

Such is the grand history of tests, extending over a period of two months, at Cornell University Experiment Station, of the

IMPROVED U. S. SEPARATOR

As just published in Bulletin No. 105 of that Station; the United States Separator excelling all competing dairy machines, and repeating again the history of the tests recorded in Bulletin No. 66 of the same

Truly, The U. S. Stands on Its Own Bottom.

PRICES, \$75.00 AND UP.
Send for pamphlets giving full details.
We want agents in every town and county where we have none.

VERMONT FARM MACHINE CO., - Bellows Fails, Vt.

Cabled Poultry, Garden and Rabbit Fence.

Before inviting your attention to the dis-play cut of the Cabled Poultry, Garden and Rabbit Fence, made by the DeKalb Fence Co., of DeKalb, Ill., as shown on this page, want to say that the marvelous growth of this company and the great demand for their goods in every State of the Union is another instance fully establishing the fact that "true merit will lead to success" every

These people were far-seeing enough from the start to appreciate this, and every line they manufacture receives the greatest care possible as to quantity and quality of material, workmanship, and the perfect adapta-bility of their goods to every section of the country, whether hilly or level, hot or cold.

The steps in the above cut shows the dif-ferent heights of their Cabled Poultry, Garden and Rabbit Fence, and the number of horizontal cables in each height. Each

MONEY FOUND

By buying from us. If you want fruit trees, roses, shrubs, etc., drop us a line (do tt now) and we will send you free, our 1896 catalogue. Its full of all the choloest kinds. Globe Nursery Co., Rochester, N.Y.

1,000 Peach Trees with freight prepaid to 1,000 any station east of the Mississippi river, 2 to 3 feet, for \$25. Other sizes in proportion. List of varieties or samples sent on request. R. S. JOHNSTON, Box 17, Stockley, Del.

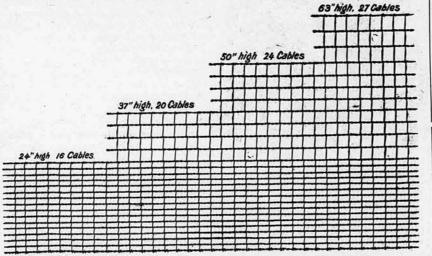
1000 ASH \$1.

Black Locust and Complete Price List FREE JANSEN NURSERY,

Jansen, (Jeffsn Co.), Neb.

HOW BEST TO CONSERVE IT. Send us your name and address, mentioning the paper in which you saw this advertisement, and we will send you a pamphlet giving our own experience, together with the experience and conclusions of fifty more of the best farmers in Nebraska and Kansas. Also our wholesale price list of choice FRUIT TREES, plants and ornamentals.

Address YOUNGERS & CO., Geneva, Neb. *******



DE KALB CABLED POULTRY, GARDEN AND RABBIT FENCE.

and prize-winning bull, Beau Real of these cables are composed of two number 11055 by Anxiety 4th 9904 and out of Beau Ideal 8th 9949. His extended pedicable a strength of 584 pounds. gree discloses one of the best comminglings of prize-winning blood found in English or American Hereford history; not only this, but during the years mentioned above his first prize and sweepstake winnings aggregated a stronger list than does that of any show yard king of his day and time and the visitor at the farm finds that the high character of the females now in the herd is mainly due to his use at the head of the herd. For further particulars concerning the 250 pedigreed animals and the 300 high grades that combined make it the largest aggregation of Hereford cattle ever offered at one time under the sales block hammer. Consult the advertisement found elsewhere in this issue and send for a copy of the free sale catalogue.

Smooth roadway. Quick time. Perfect passenger service. Uniformed train por-ters for the convenience of first and second tween Chicago, Buffalo, New York and Boston. Unexcelled dining car service. No change of cars for any class of passengers between Chicago and New York city via the Nickel Plate Road. J. Y. Calahan, Gen'l Agent, 111 Adams street, Chicago, Ill.

Millions of Gold

In sight at Cripple Creek, Colo. Only twenty-three hours from Topeka by the Santa Fe Route, the only broad-gauge route passing right by the "Anaconda" and all the famous mines. See the nearest Santa Fe agent for all particulars, or write to Geo. T. Nicholson, G. P. A., Chicago, Ill., or W. J. Black, A. G. P. A., Topeka, Kas.

We can furnish you The Cosmopolitan Magazine and KANSAS FARMER one year for \$1.85. Send in your subscriptions for this combination before April

cable a strength of 584 pounds.

This superior strength is what has made it the most popular and satisfactory poultry and garden fence now in use. It will not contract nor buckle between the posts, therefore does not require top nor bottom rail. The perishable part is discarded and put into steel, making a fence much stronger, more durable, and when completed, will cost less money

Their steel Web Picket Fence for lawns door yard or cemetery purposes is artistic in design with the strength and durability of steel, yet cheaper than wood. Their Cabled Field and Hog Fence contains those qualities which has placed it in the fore-most rank of smooth wire fencing now produced. It, too, has proven beyond a doubt that it was made and is made for service and durability.

You will not serve your own interests if you do not write the DeKalb Fence Co., 23 High street, DeKalb, Ill., for their catalogue, which they will mail you free.

Millions of Gold

In sight at Cripple Creek, Colo. Only twenty-three hours from Topeka by the Santa Fe Route, the only broad-gauge route passing right by the "Anaconda" and all the famous mines. See the nearest Santa Fe agent for all particulars, or write to Geo. T. Nicholson, G. P. A., Chicago, Ill., or W. J. Black, A. G. P. A., Topeka, Kas.

Unequaled Service

Denver to Chicago via Kansas City is given via the Union Pacific and Chicago & Alton railways.

Through Pullman Sleepers, Pullman Dining Cars and Free Reclining Chair Cars leave Denver Daily. The Union Pacific is the great through car line of the West. Ask your nearest ticket agent for tickets via this line.

Gen. Pass, and Ticket Agent Omaha, Neb.

FERRY'S SEEDS

for them—get them get them, plant them. They are the standard seeds every-where; sown by the largest planters in the world. Whether you plant 50 square feet
of ground or 50 acres, you should
have Ferry's Seed Annual for '96.
The most valuable book for farmers and gardeners ever given
away. Mailed free.
D. M. FERRY & CO.,
Detroit. Mish. Detroit, Mich.

SEED POTATOES!

My Own Production.

EARLY OHIO

Yielding in 189 \ 330 Bu. Per Acre.

Kept from sprouting, are plump, full of vitality, excellent for either seed or the table. Seed came from Minnesota last spring.

One Bushel.... 75c. | One Barrel..... \$2.00

Write for prices on large lots.

B. H. PUGH, Topeka, Kas.

FOR SALE!

Choice Varieties of Best Early SEED POTATOES.

Early Six Weeks.....70c. per bushel Early Rose......65c. per bushel Burpee's Superior.....65c. per bushel

All the above varieties good size and sound, in sacks or barrels, delivered to.

any railroad depot here. TOPEKA PRODUCE CO. Address 304 Kansas Ave., TOPEKA, KAS.

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The Some Circle.

CAPTAIN JAUK.

Jack Crawford's been a-tellin' us of sunshine an of song, A-laughin' us to glory an' a-cheerin' us along; A-tellin' Western stories in a most uncommon way.
Till pathos brought the tear drop which his laughter wiped away.
He's plain in all his wisdom an' his hearty clasp of hand
Is just the best religion—every soul can understand.
He threw out chunks of pity to the heart in sorrow bow'd.
And said: "God sprinkles sunshine in the trail of every cloud."

Jack Crawford, you have taught us how along life's dreary way.

Hope's star may shine in darkness till the dawning of the day;
When the sunshine God will shower over sinners, over saints,
Till the sky is all a-glory with its carmine tinted paints.

paints.
Your gladness conquered sadness an' we wear
a smilin' face,
A-gropin' an' a-hopin' we may conquer in the A ground an amount we may contain a race;
You've torn the somber mantle which enveloped like a shroud
In your: "God will sprinkle sunshine in the trail of every cloud."

Jack Crawford, how we'll miss you when your earthly work is done,
When the poet's work is over and his honored crown is won,
We'll miss your hearty clasping of a fellow toiler's hand;
We'll miss the face of sunshine which we all can understand.
But when the call shall summon you to cross the mystic range,
You'll find this life's been tallied and the other won't seem strange;
The Foreman Great will crown you for you've done his bidding proud,
And "God will sprinkle sunshine in the trail of every cloud."

—Roy Farrell Greene, Arkansas City, Kas., in Inter Ocean.

OUR FIRST PRESIDENT.

Great as a Statesman But Greater as a Citizen.

The Preservation of the Union After the Early Colonial Struggles Was Due Entirely to Washington's Personal Influence.



VERYONE without exception," wrote the minister of France in the report to his government on the inauguration of Washington as the

first president of the United States, 'appeared penetrated with veneration for the illustrious chief of the republic. The humblest was proud of the virtues of the man who was to govern him. Tears of joy were seen to flow in the hall of the senate, at church, and even in the streets, and no sovereign ever reigned more completely in the hearts of his subjects than Washington in the hearts of his fellow-citizens. Nature, which had given him the talent to govern, distinguished him from all others by his appearance. He had at once the soul, the look and the figure of a hero. He never appeared embarrassed at homage rendered him, and in his manners he had the advantage of joining dignity to great simplicity."

It was an ovation such as has come to but few persons in human history. and it marked the position of George Washington as one of the most unique in the history of the world. There have been greater generals, there have been as great statesmen, there have been men who combined both capacities perhaps in as high a degree in their acts done in the broad light of publicity. But no one comes to mind who during his lifetime exercised so great an influence upon his country. Of him it was true that he can best govern others who has learned to govern himself. There is scarcely another personage in history who was at once as patriotic as the enthusiast, yielding nothing in fervor for country to the impulsive Patrick Henry, and yet preserving that tranquillity which kept his mental vision unobscured by passion and unclouded by the dreams of zealots, equal in wisdom and calmness of judgment as an architect of states to his illustrious associate, James Madison.

Aspiring to the loftiest ideas of freedom, independence, prosperity, progress and happiness, his was nevertheless a moderation which kept in view that which was attainable practically, and he never reached for the will-o-thewisps which dazzle the imagination of

siasts. He seldom failed in what he undertook because he took care not to attempt that which was beyond his means and never to proceed until his clear reason saw at every step of the enterprise the manner of carrying it out. That this moderation did not lead to timidity, that the "native hue of resolution" was not "sicklied o'er with the pale cast of thought" so as to lose its strength is shown by such bold enterprises as his incursion into New Jersey across the ice-swollen Delaware and the successful assault on the British invaders.

It was this dignified moderation which caused him to estimate justly both the resources at his disposal and the difficulties to be overcome, that gave him not pride, but confidence, and thus not only invited, but compelled the confidence of others. No man differently constituted could have held the continental army together in the terrible winter of Valley Forge and under the trials and distress caused by jealousies in congress and insufficiency of means. Nor could any other type of man, on the other hand, have restrained the impetuosity of his officers and men who would have used their power for their own benefit against their countrymen if only to the extent of exacting their just dues.

But more remarkable, because enforced by no civil or military authority, but only by the weight of his personality, was his influence during the time preceding the adoption of the con-



WASHINGTON AT VALLEY FORGE.

During the most critical stitution. period of American history, when anarchy threatened to overwhelm the people, when the various interests of producer and carrier, of south and north, of slaveholder and anti-slavery zealot, local differences of tradition and descent, and the individual pride of the states were all pulling in different directions and the body which had been held together, apparently with reheld together, apparently with re-luctance, under the pressure of foreign invasion, bid fair to be dissolved into its original units, it was the personal influence of Washington that contributed more than any one cause to a happy solution of the serious difficulties. state of Virginia, after her heroic conduct in the beginning of the revolution and throughout the war and her noble sacrifice in yielding to the confederation her vast northwest territory, was on the point of frustrating all that had gone before by refusing to accede to the constitution submitted to the states for ratification, it was the influence of Washington that saved that great state for the cause of the union and thus saved the union itself. Not taking part in the debates of the legislature or the subsequent convention, he was active, nevertheless, by writing to his friends and answering inquiries from numercus citizens until the ratification was carried against the violent exertions of some of the ablest of Virginia's remarkable galaxy of statesmen.

Most powerful of all, however, was the quiet influence of Washington's personality at that time, not only in his native state, but all through the stater; and it is in this silent force which was at work among the people that his unique position in history stands out most clearly. The personal element is always stronger than that of an abstract idea in political movements. It may be fairly doubted, and is actually well-meaning. 'It impractical enthu- doubted by the highest historical auHighest of all in Leavening Power.-Latest U.S. Gov't Report

OLUTELY

thority, if the new government could have been established on broad national lines merely on the strength of its inherent virtue, had there not been back of it the heroic figure of Washington. The new plan of government being a compromise between conflicting interests and modes of thought met with dissatisfaction, in some particular, almost everywhere, but there was abroad among the people the feeling, sometimes clearly expressed but generally remaining in an indistinct form, that whatever there was unsatisfactory in the plan was bound to work out well in the hands of Washington. This unbounded trust in the people's hero had designated him for the first executive long before the constitution itself was ratified, and but for this faith in the one man we might not have had the nation of the United States of America, but in its stend several disjointed confederacies. With perfect propriety could the Italian patriot Alficri greet Washington with the words: "Happy are you who have for the sublime and permanent basis of your glory the love of country demonstrated by deeds." And it was not merely local feeling, but fairly represented the universal sentiment of the people which found expression in the parting words of his neighbors of Alexandria when he left them on his journey to New York to enter upon his duties as president of the United States: "Farewell, and make a grateful pepole happy; and may the Being who mal oth and unmaketh at His will, restore to us again the best of men and the most beloved fellow-citizen."

It is customary to speak of Washington in his public capacity of commander-in-chief or of president. It may be well, therefore, to have called attention to the silent influence above described, for it is not blazoned on the pages of history, but nevertheless, perhaps, the most important part of his life work. And it was well for the young republic that it enjoyed during the first years of its existence government by a man of supreme self-control and moderation. The success of the American revolution fanned into life the spark of liberty in Europe and the organization of the government must be on a firm foundation to withstand the influences of the convulsions that were to occur within a few years and set the nations of Europe at each other's throats. Washington was prepared. His comprehensive mind discerned the approaching storms both abroad and in his own country. He

understood well the conflict of opinions in which he had borne a dignified part in the federal convention of 1787, and the fierce party strife which it foreshadowed. When he was called to the presidential chair he was ready with a federal policy, the result of long med-itation. This was his policy: "To preserve freedom, never transcending the powers delegated by the constitution; even at the cost of life to uphold the union (a sentiment which, as George Bancroft says, in him had a tinge of anxiety from his thorough acquaintance with what Grayson called the southern genius of America); to restore the public finances; to establish in the foreign relations of the country a thorough American system; and to preserve neutrality in the impending

conflicts between nations in Europe."

By no act of his life, full of glory and heroism though it was, did Washington become more truly the "father of his country" than by that influence which emanated from him and from the example of his life while he was quietly striving to repair the remains of his fortune shattered by seven years' absence and the ravages of the war, that fortune, which, when it was yet in full bloom, he had pledged to the starving soldiery in support of the eredit of the nation yet unborn.

H. E. O. HEINEMANN.



FREE TO SUFFERING WOMEN.

nothing to convince yourself of its merita, for I send it tree with full instructions to every suffering woman. Address, MRS. L. HUDNUT, South Bend, Ind.

Rev. John Reid, Jr., of Great Falls, Mon., recom mended Ely's Cream Balm to me. I can emphasize his statement, "It is a positive cure for catarrh if used as directed."— Rev. Francis W. Poole, Pastor Central Presbyterian Church, Hel-



CATARRI

ELY'S CREAM BALM opens and cleanses the Nasal Passages, Allays Pain and Inflamma-tion, Heals the Sores, Protects the Membrane from colds, Restores the Senses of Taste and Smell. The Balm is quickly absorbed and gives

A particle is applied into each nostril and is agreeable. Price 50 cents at Druggists or by mail. BLY BROTHERS, 56 Warren Street, New York.

THOS. B. SHILLINGLAW, Real Estate and Rental Agency, 115 East Fifth St., Topeks, Kas. Estab lished in 1884. Calls and correspondence invited.



External Pains as

Rheumatism Neuralgia Chilblains Frost Bites

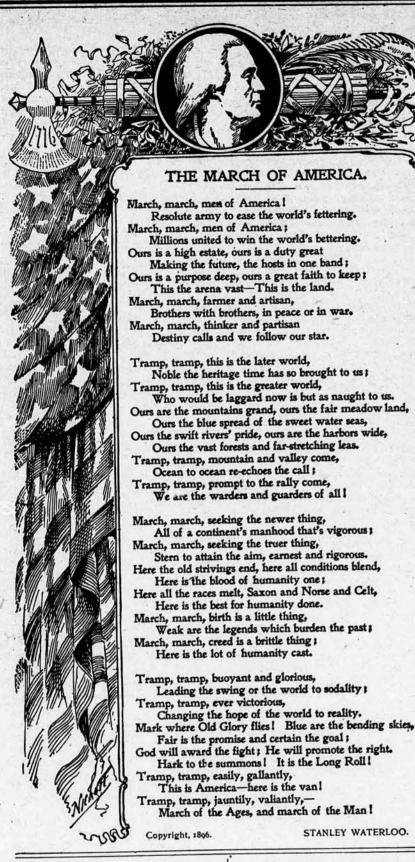


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Gives instant relief, heals cuts, burns, bruises, scalds, sprains, wounds, old sores, ulcers, scald head, earache, eruptions, pimples, skin worms, sciatica, lumbago Price, 25c, 50c & \$1 per Bottle Sold Everywhere





DOG THAT REASONED.

Knew When It Was Safe to Sleep on His Master's Bed.

No one who knew Bombshell ever doubted that he reasoned and thought, but occasionally I would find a stranger who was not inclined to believe it, and then I would tell him the following story: My parlor was a front casemate which opened by an arch into my bedroom, a back casemate. A casemate may be described as a room in the wall of a fort, generally intended, in war time, to hold a gun or powder, while in time of peace many of them, like



"SUPPOSE MY MASTER HASN'T GONE?"

mine, are fitted up for use as quarters for officers and soldiers.

Bombshell had his own bed in the back casemate; but he preferred my bed and would use it whenever he could. I had tried to break him of the habit, but had not been successful.

One day he came in wet and muddy, and, as usual, curled up on my white in St. Nicholas.

counterpane. The result was awful. As much as I hated to do so, I felt obliged to give him a thrashing.

I never caught him on my bed again. He would still get on it; but, no matter how quietly I came in, I would always find him on the floor, though I could see from the rumpled condition of the bed that he had been on it, and often the spot where he had slept would still be warm.

One evening I went out, leaving Bombshell lying by the parlor stove.

Out of curiosity I peeked through the half-turned slats of my shutters and watched him. From my position I was able to see the whole of both of my rooms.

For awhile Bombshell did not move; then he raised his head and looked at door: finally he got up stretched himself, yawned sleepily, walked to the bed, jumped up, and put his fore paws on it. Standing in this position, a thought struck him, and he said to himself:

"Suppose that my master hasn't gone? He will catch me and then I will get a licking. I'll go and make certain that he is not coming back." I know that he said this because he took his paws off the bed, walked cautiously back to the front door, and, with his ear close to the crack, he listened. At last, satisfied that I had really gone, he trotted back to the bed, jumped on it, curled up, and went to sleep.

After such a clever act I thought that he had earned his sleep, so I went away and left him.-Lieut. John C. W. Brooks,

LITTLE GIRL'S TRAVELS.

Will Journey, All Alone, from San Francisco to Australia.

On the steamer Dora, that recently entered San Francisco bay on its return from Alaska, was one wee passenger who has quite a history for a small

Her father, Richard Beasley, was ship's clerk on the warship Pinta, and some years ago sailed from New York to Alaska. He left his wife and child behind, expecting to send for them. After he had been gone some time Mrs. Beasley died, leaving Jennie, then a baby of four years, alone.

The wee mite was tagged, put on a train and started for Yukatu, Alaska, where her father had taken charge of a trading store. She arrived safely and for four years was the only white child in the village, but was perfectly happy

with her native playmates. Her father has now decided to send her to Brisbane, Australia, to live with an uncle and to go to school, as the missions in Alaska are not very advanced, and this child, not more than nine, has started on her long journey. If she reaches her destination in safety she will be the greatest traveled person of her age now living, having journeyed half around the world in a westerly direction and one-third of the way around in a southely course.

A TRUE SOLUTION.



-Say, little boy, do you know Washington crossed the Dela-

Boy-Wanted to get on the other side, I reckon.—Texas Siftings.

Heard the Name Before.

A good story is told of a negro janitor in New York. An occupant of one of the legal offices from which he daily in the winter season removed ashes was moved to present him on Christmas with a handsome gratuity in legal tender. "Merry Christmas, George," he said. "By the way, George, what is your other name?" "Washington, sir-George Washington." "Yes, I believe I have heard that name before," said the lawyer. "I s'pose you has, sah; I s'pose you has," said the darky. "I'se been takin' out ashes here for 20 years."

How to Keep Cut Flowers.

It is said that cut flowers will keep very fresh if a small pinch of nitrate of potash, or common saltpetre, is put in the water in which they stand. The ends of the stems should be cut off a little every day to keep open the absorbing pores.

An Exception. "No truly great man ever yet Confessed 'I can't,' my lad," So so gely spake a father to his son

The hopeful answered: "Don't forget
That little story, Dad,
You used to tell about George Washington" ington."
—Harry C. Baker, in Puck

Better than

any other: Vacuum Leather Oil. Get a can at a harness- or shoe-store, 25c a half-pint to \$1.25 a gallon; book "How to Take Care of Leather," and swob, both free; use enough to find out; if you don't like it, take the can back and get the whole of your money.

Sold only in cans, to make sure of fair dealing everywhere—handy cans. Best oil for farm ma-chinery also. If you can't find it, write to

VACUUM OIL COMPANY, Rochester, N.Y.

YOUR PAST, PRESENT, AND FUTURE.

.....

You have suffered much in the past. Many of your days have undoubtedly been darkened by the shadow of sickness and ill health. You have oftentimes felt gloomy and despondent. At the present moment you may not be feeling just as well as you ought to feel. Perhaps you are experiencing the first symptoms of some serious ailment which is lurking in your system. Unless it is promptly checked there may be a long siege of illness in store for you. Now is the time to

STOP AND THINK

about the actual state of your health.

If you are suffering from tired feelings, headaches, backaches, biliousness, debility and other symptoms, remember that your present and future are in your own hands. You can get that most precious blessing of sound health, as others have done, by the aid of Warner's Safe Cure. Volumes could be filled in telling of what it has done for men and women who were completely run down in health. Its splendid tonic effects give new life and energy to those who are weary and worn out.

If you are in need of help you should make your present and future happier by putting your system in sound condition. Get a new stock of health and strength by using the great safe cure which builds up the body, purifies the blood and makes the eye brighten with the sparkle of fresh life.

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The only Commercial College in Southern Kansas that teaches Actual Business Practice through the regular United States mail with all the leading colleges of America. This feature alone should decide where to get your Business education.

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E. H. ROBINS, President, Wichita, Es.



ASK YOUR DEALER FOR

W. L. DOUGLAS \$3. SHOE BESTORIL THE

If you pay \$4 to \$6 for shoes, examine the W. L. Douglas Shoe, and see what a good shoe you can buy for



\$3 Shoes than any other

manufacturer in the world. None genuine unless name and price is stamped on the bottom.

Ask your dealer for our \$5, \$4, \$3.50, \$2.50, \$2.25 Shoes; \$2.50, \$2 and \$1.75 for boys.

TAKE NO SUBSTITUTE, If your dealer cannot supply you, send to faccannot supply you, send to fac-tory, enclosing price and 36 cents to pay carriage. State kind, style of toe (cap or plain), size and width. Our Custom Dept, will fill your order. Send for new Illustrated Catalogue to Box M.

W. L. DOUGLAS, Brockton, Mass.

KANSAS FARMER.

ESTABLISHED IN 1863.

Published every Thursday by the

KANSAS FARMER COMPANY.

OFFICE:

No. 116 West Sixth Avenue.

SUBSCRIPTION PRICE: ONE DOLLAR A YEAR. **An extra copy free fifty-two weeks for a club of six, at \$1.00 each.

KANSAS FARMER CO., Address Topeka, Kansas.

ADVERTISING RATES.

ADVERTISING RATES.

Display advertising, 15 cents per line, agate, (fourteen lines to the inch).

Special reading notices, 25 cents per line.

Business cards or miscellaneous advertisments will be received from reliable advertisers at the rate of \$5.00 per line for one year.

Annual cards in the Breeders' Directory, consisting of four lines or less, for \$15.00 per year, including a copy of KANSAS FARMER free.

Electros must have metal base.

Objectionable advertisements or orders from unreliable advertisers, when such is known to be the case, will not be accepted at any price.

To insure prompt publication of an advertisement, send cash with the order; however, monthly or quarterly payments may be arranged by parties who are well known to the publishers, or when acceptable references are given.

Examples all advertising intended for the current week should reach this office not later than Monday.

Every advertiser will receive a copy of the paper free during the publication of the advertisement.

Address all orders—

KANSAS FARMER CO., Topeka, Kas.

Address all orders— KANSAS FARMER CO., Topeka, Kas.

During the last ten days several dollar bills have been received by the KANSAS FARMER subscription department without any name to indicate the sender. Please be careful, friends, to write your name and postoffice plainly whenever writing to this office, especially when sending money.

The usual annual requests for free field seeds, garden seeds and flower seeds are beginning to reach the State Agricultural department. It would be a saving of time and postage if it were better understood that the State Board of Agriculture has nothing to do with any seed distribution, free or otherwise.

We publish this week a copy of a letter from Mr. C. Wood Davis to a member of Congress, urging the passage of the Bankhead bill for the protection of producers against the ruinous methods of the gamblers in values of products. It will be well if every farmer write to his Congressman urging the passage of this bill. The depressing effects of this kind of gambling have had much to do with the depression which has affected producers all over the world.

Senator Peffer's resolution for the investigation of the several bond transactions of the present administration passed the Senate last Monday. The resolutions were heartily endorsed by the New York World, the paper which took the lead in compelling the administration to offer the last series of bonds to the public instead of allowing the Morgan syndicate to take them under private arrangement at about \$7,000,000 less than the amount realized by the plan adopted.

The January, 1896, subscription business of the Kansas Farmer was far in excess of that of any other January of recent years. February is following as a record-breaker, and the publishers are not complaining. While most of those whose time expired January 1 have sent in their renewals there are still some who are yet to hear from. The subscription department suggests the subscription department suggests its willingness to credit their dollar bills as rapidly as sent. If any subscriber has not seen our late supplement describing combination offers.

The subscription department suggests in the save and the save in those in pens these, he says in his last issue: 'It was our pleasure to attend the last two days of the annual meeting of the Kansas State Board of Agriculture, held at Tomburg and the save in the save in his last issue: 'It was our pleasure to attend the last two days of the annual meeting of the Kansas State Board of Agriculture, held at Tomburg and the save in his last issue: 'It was our pleasure to attend the last two days of the annual meeting of the Kansas State Board of Agriculture, held at Tomburg and the save in his last issue: 'It was our pleasure to attend the last two days of the annual meeting of the Kansas State Board of Agriculture, held at Tomburg and the save in his last issue: 'It was our pleasure to attend the last two days of the annual meeting of the Agriculture, held at Tomburg and the save in his last issue: 'It was our pleasure to attend the last two days of the annual meeting of the Agriculture, held at Tomburg and the save in his last issue: 'It was our pleasure to attend the last two days of the annual meeting of the Agriculture, held at Tomburg and the save in his last issue: 'It was our pleasure to attend the last two days of the annual meeting of the Agriculture, held at Tomburg and the save in his last issue: 'It was our pleasure to attend the last two days of the annual meeting of the Agriculture, held at Tomburg and the save in his last issue: 'It was our pleasure to attend the last two days of the annual meeting of the save in his last issue: 'It was our pleasure to attend the last two days of the annual meeting of the save in his last issue: 'It was our pleasure to attend the last two days of the annual meeting of the annua ment describing combination offers, etc., his request for a copy will be honored as soon as received.

A new and heret ofore greatly needed series has just appeared from the press of John B. Alden, New York. It is a "Living Topics Cyclopedia," arranged in alphabetical order and to be published continuously. The standard cyclopedias are very satisfactory for all information current at the time they were made, but the man of to-day wants a reference book of the latest developments of knowledge. This the "Living Topics Cyclopedia" furnishes in good cloth binding. The price is to be 50 cents for each 500 pages. These books will be next to indispensable to persons who claim to be up with the times.

THE ECONOMIC PRODUCTION OF PORK.

The question of the value of grass in the feeding of pigs, i. e., in the manufacture of pork, is one for which there has been a total scarcity of exact information. It has long been known in a general way that clover and alfalfa pastures are good for hogs and are used at a profit to the feeder. It has remained, however, for Prof. A. A. Mills, of the Utah Experiment Station, to present the results of a series of carefully-conducted experiments in

"The Economic Production of Pork." It may be remarked that Prof. Mills is a graduate of Kansas Agricultural college. He was, while a student, well known to the writer hereof, who has no hesitation in vouching for the absolute honesty of his reports and the care and accuracy of his experimental work.

In Bulletin No. 40 of the Utah Station, Prof. Mills gives the details of his experiments, covering a period of two years, 1894 and 1895. We can give here only a portion of the results. One of his first, though not new findings, is that it costs more per pound to produce a very large than a medium or light hog. Thus, the number of pounds of grain used to produce one pound of gain was, for seventy-five to 100 pound pigs, 3.62 pounds of grain for one pound of gain; 100 to 150 pound pigs, 4.13 pounds of grain per pound of gain; for 150 to 200 pound pigs, 4.55 pounds of grain per pound of gain; for 200 to 250 pound pigs, 5.01 pounds of grain per pound of gain; for 250 to 300 pound pigs, 7.13 pounds of grain per pound of gain; over 300 pound pigs, 10.03 pounds of grain per pound of gain. Prof. Mills says of this showing:

"The paying hog is the one that can be put on the market from six to ten months old, weighing from 175 to 300 pounds. If this is correct, then there is no time for a partial starvation period; neither is there a necessity for a large frame; for the sooner the hog is put on the market after he weighs 300 pounds, the better for the producer. It is clear that the animal should be made to reach this weight as early as possible."

It was found that pigs, which had been for sixty days in pasture on onefourth grain ration, made, when placed on full feed, more rapid gains than any others, each pig gaining 138 pounds in sixty days, and that the cost per pound of gain was less for the pigs thus treated than for any others. Pigs thus treated and making such gains should reach the weight which is now most in demand, about 200 pounds, when quite young. In Kansas, early spring pigs kept on pasture and a light grain ration until the first of July, then given full feed of say early green corn, should be ready for the September market, which has been shown to average the highest of the year.

Prof. Mills gives the following general summary of his experiments:

1. Pigs allowed to run at large over eighteen acres of good pasture and fed a full ration of grain made the most rapid growth and required the least grain for one pound of gain. pound of gain.

Pigs confined in movable pens in the pasture grew more slowly than those running loose and required an increase of 20 per cent. of grain to make one pound of

growth.

3. Pigs at pasture, fed under three different conditions, gained 92.5 per cent. more and ate but 2 per cent. more than the pigs getting grass and otherwise similarly fed but confined in pens. The grain required to produce one pound of gain was increased 40 per cent. with those in pens over those at pasture.

grain ration and grass, either in the yards or in the pens.

5. Pigs pastured without grain made about the same growth for three seasons in succession, this averaging .36 of a pound

per day.

6. As nearly as can be judged, exercise alone increased the gain 22 per cent. and the amount eaten but 1.5 per cent., but decreased the amount required for one pound

creased the amount required for one pound of gain 22 per cent.

7. Grass when cut and fed green to pigs, whether fed in pens or yards, or with full or part grain ration, or without grain, proved to be of very little value.

8. Pigs confined in pens and fed on grass alone, mostly lucern, for ninety-one days, lost over a quarter of a pound per day.

9. The average of the pigs fed on grass gained a little more than those without the grass, but not enough to pay for the extra grass, but not enough to pay for the extra

grain to make a pound of pork than with-

11. Pasturing either with full or part grain rations appeared to be by far the cheapest and best way of making pork.

Note.—The grass is a mixture of eight varieties, in which lucern constitutes at least one-half.

J. W. Babbit, of Hiawatha, inquires where he can get the Mammoth White Dent seed corn, such as was raised at the experiment station at Manhattan.

Do not put off pruning the grape vines. February is as late in the spring as this work should be left. This promises to be an early spring so do not delay another day. Full directions are given in the Horticultural department of this number of the KANSAS FARMER.

The letter from Hans Rasmus, of Corning, Kas., about his seedling peaches, which was published in the KANSAS FARMER recently, has gotton him into trouble by bringing him more letters from Kansas and Oklahoma than he can answer. He desires us to say that he has planted all of his seed and therefore has none to sell, but hopes to have trees for sale next season.

With all of our State Railroad Commissions and our elaborate Inter-State Commerce Commission, the people seem to be powerless when these great corporations desire to make the rates to the Gulf so high as to turn our corn to the Eastern seaboard for export. The frothings of the press of the State tion. This is likely soon to subside, however.

One hundred and four bushels of corn per acre is the amount reported by J. A. Baxter, of Waveland, Shawnee county. It was grown last year on land which had been in potatos. Good culture and well-selected seed corn the chief points of Mr. Baxter's explanation of how he did it. Ground plowed about twelve inches deep. Yellow dent corn, best and largest ears selected for many years. A big cob with plenty of corn around it meets with approbation from Mr. Baxter. Four sample ears brought to this office weigh 15, 16, 16‡ and 18 ounces, respectively.

After the late exhibition by this country of the "roll" on which is inscribed the Monroe doctrine, England has, with great unanimity, discovered that she does not want a foot of Venezuelan territory and has declared with great alacrity that she is willing and anxious to arbitrate every matter of doubt. She also expresses great admiration for the course taken by this country in the matter and particularly for the fact that we have appointed a commission to investigate the facts of the location of the disputed boundary between British Guiana and Venezuela. The way in which John Bull got down from his high horse was just beautiful to behold. Hereafter a suggestion of the Monroe doctrine is likely to be even more potent than in the past.

Mr. H. W. Campbell, editor of Western Soil Culture, a high-class agricultural journal, at Sioux City, Iowa, was a visitor in Topeka, last month, and evidently went away pleased with some of the things he saw and heard. Among other kindly editorial expressions as to these, he says in his last issue: "It was peka, January 8, 9 and 10. Not that we wish to be partial, or in any way flatter Kansas' able and industrious people, however we are frank to say it was the most interesting and instructive meeting we have ever attended. One feature is worthy of mention and exceedingly commendable, and that was the entire absence of exaggeration by any of the speakers. All of the lectures were brim full of practical ideas and mainly the result of the speaker's own experience. The complete report of the meeting will be one of great interest."

"Bacteria do not occur in the blood or in the tissues of a healthy living feed in the grass.

10. With the pigs confined in the hoghouse pens the grass proved beneficial, while with those in the yard it proved detrimental, the latter requiring more body, either of man or the lower animals."

So says the celebrated Dr. Koch. Other doctors say that the best medicine to render the blood perfectly pure and healthy is detrimental,

Government Money Almost Without Interest.

A new plan for handling the currency and bond interests of the country is proposed by Mr. E. C. Looy, President of the Kansas City Hay Press Co. Mr. Looy is a most successful inventer of machinery, and as a manufacturer and manager of large interests has forged rapidly forward during the times when many others have failed. His suggestions are well worth considering:

"Should the government issue bonds bearing 2 per cent. interest and require all banks to take out nearly their capital stock in currency, buying these bonds at par to use as a deposit to secure the currency, the same as is now done by the banks, except give them a dollar of currency for a dollar of bonds. Next step: Of this 2 per cent. interest the government is to retain 1 per cent. and the banks 1 per cent. to create a sinking fund to pay off the depositors in the banks that have failed. The banks should not be allowed to divide this I per cent. up, but keep it as a fund for the purpose named. The government is not to use its part except to pay depositors in case of a failure of a bank. This would insure confidence in the banks from the depositor's standpoint of view, and each bank would have a watchful eye on other banks, fearing they would have to pay some of their losses. These bonds could run for, say, fifty years. We would have enough money to do our business on and we depositors would have no fear indicate some restiveness at the situ- of losing anything from banks failing, and our national debt would cost us but 1 per cent. interest, which interest makes an insurance fund that all banks are good that the government licenses to do business. It would be better to require all banks to follow in this line, no exceptions being allowed for State or savings banks. By this means the farmer could not say that the banks were getting interest from the borrower and from the government, too, as they

Allen County Farmers' Institute.

EDITOR KANSAS FARMER:-The first institute in the history of the county was very successfully held at Iola on February 14. . Hon. J. T. Treadway was elected President and responded with an eloquent speech that was received with thunderous applause. Hon. L. B. Pearson was elected Vice President, and Hon. Chas. F. Scott, of Iola Register fame, was elected Secre-

Prof. Failyer, of the Agricultural college, gave an interesting talk upon "Effects of Soil Tillage." The great points brought out were the constant tendency of rocks to break up and soil to cement. Plowing, cultivation and drainage were well shown up.

Clarence J. Norton then read quite a remarkable paper on "Subsoiling," in which he paid the soil and climate of eastern Kansas and western Missouri a very high tribute, also to the inventor of the new-process subsoil plow, Mr. A. B. Perine, of Topeka. He saw that every one present had a copy of the KANSAS FARMER, and we anticipate that that great journal will have the support from Allen county that it deserves. Mr. Norton's article brought out so much discussion as to show the interest felt in the subject. So well was it received that he was showered with congratulations.

Hon. E. H. Funston gave a highly interesting talk on "Diversified F ing," which every farmer of the Second district should have heard. Mr. Funston has had one hand hold of the pen in the United States Congress and the other among the burs on Deer creek, so to speak, and his many observations afforded a fund of information.

Great credit is due that indefatigable worker for the farmers' interests, Chas. F. Scott, late Senator for this district. His untiring efforts for the farmer place him in the highest estimation by them here and will some day be returned by placing him in the position he is so eminently well fitted for—that of United States Senator.

REPORTER.

Lack of vitality and color-matter in the bulbs causes the hair to fall out and turn gray. We recommend Hall's Hair Renewer to prevent baldness and grayness.

Protection Against Short Sellers. PEOTONE, KAS., February 10, 1896. , Washington, D. C.

DEAR SIR:-There is now before the Committee on Agriculture a bill in which the great mass of farmers of the States producing a surplus of grain and cotton take an abiding as well as a keen interest. This is the bill introduced

by Mr. Bankhead.

Growing both wheat and corn largely. and having formerly been engaged in buying and milling grain, I have had and have availed myself of exceptional opportunities to see, study and feel the effects of the change in market methods following from the adoption of the practice of selling "futures" by those who neither own nor expect to own quantities of the products in which they pretend to deal. Not only are the markets of this country, and of the world, overloaded and prices therefor greatly depressed by the quantities of flat grain and cotton offered, but the hedging operations of the miller and elevator owner—vociferously claimed to be legitimate—results in doubling the quantities offered. That is, the hedging owner not only sells a "hedging future contract," which he intends to buy back when the price can be depressed far enough, but he offers the actual product against which he has sold this hedge. But this is far from the worst of this hedging business. For every lot of product he buys he puts out a long "future," trusting to manipulation and the chapter of accidents to enable him to buy it back at a profit. That is, he owns or holds but a small fraction of the product represented by his hedging contracts—the contracts outstanding representing all the grain that has passed through his hands in months. Thus his real interest is not in advancing the value of the real product that he holds temporarily but in depressing the value of his outstanding contracts. In other words, his interest in the price of the real product is in the ratio of 1 to 10, or 1 to possibly 100, in contracts. Thus even the receivers and handlers of real grain are, by this nefarious system, made enemies of good prices, because their outstanding contracts represent many times as much grain as they own.

An equally pernicious effect-possibly worse-of the "futures" system is the direct power it gives of manipulating markets and prices without owning a bushel of grain or a pound of cotton, as a few wealthy operators-and one has been known to do it-by immense offerings of fictitious product depress prices, and cause wide and destructive fluctuations on which they sell or buy, as they may be long or short of paper

Moreover, this system enables the smallest operator, who can command but a few hundred dollars, to offer more grain than is grown on the largest farm, although a large capital is invested and great sums expended annually for wages.

But ten days since one of the great Chicago speculators had his broker selling grain on one side of the pit while he had another set of brokers on the other side buying in the fictitious products sold. This operation was made possible, so far as effect upon prices was concerned, only by the futures system, yet this enabled this one operator by fictitious sales of phantom products to deflect world prices

As a Republican, I have always favored a protective policy, and have not objected when this policy was carried far in the interest of the Northeastern manufacturer; but if protection is \$500,140186, mules \$103,204,457, milch needful against the offering in our markets of the products - the real products-of the cheap labor and capital of Europe, how much more needful that the industry which employs 40 per cent. of the nation's workers should be protected against the destructive competition of the fictitious products that pour unceasingly from the wide open mouths of the vociferous operators in the "price factories" of Chicago. New York, New Orleans and the other board of trade centers? The foreign manufacturer must have command of both labor and capital to produce the sota, the Dakotas and westward, fewer are invaluable, their use being always atwares competing with our mills and elswhere. Decrease in other cattle and tended with marked benefit.

factories, but the only capital required by a dealer in fictitious farm products is a few hundred dollars, a good pair of lungs and an unlimited desire to secure reward without performing any service for the community. The only labor involved is inhalation and expi-

While I am in no manner authorized to speak for other farmers, I can say that, having taken a great interest in this subject, I have been led to visit the States producing surpluses of grain and cotton in order that I might know how other producers looked upon this futures system. I have found 90 per cent. of all those with whom I have talked on the subject keenly appreciative of the evil effects of market methods now in vogue, and earnestly desirous that federal legislation should put a stop to the operations alike of the short-seller proper and the hedging produce dealer. I found about one in ten to twelve indifferent, and one occasionally that favored the system, just as an occasional farmer will be found who patronizes the "bucket-shop" as he formerly did the Louisiana lottery. Outside of the central cities I found merchants and millers very generally opposed to the system and desirous of its suppression.

If the products of the mills, forges, refineries, factories, lumbering establishments, the great quantities of goods and wares imported, the iron, the steel, the coal, the beef and the wool can be marketed without these pernicious methods, why not the wheat, the corn, the oats, the cotton and the pork?

These methods have destroyed everything like investment buying of the real products of the soil; they cause frequent and wide, and confidence-destroying fluctuations in price. Prices are put up for the purpose of selling paper contracts, and then, with equal facility, put down to buy them in from the country lambs whose margins are exhausted.

These fluctuations never benefit the producer, but on the contrary, injure him, as they are taken into account by the dealer when buying his produce, and the margin made wide enough to cover them. They also destroy in part the producer's power to borrow on his grain and cotton, as the lender requires a much wider margin when lending, a margin which shall cover all possible fluctuations during the currency of the

This system has eliminated the independent country grain dealer in a remarkable manner, making of him but the commission agent, and often the tool of the great operator.

I have examined a copy of the bill before the Committee on Agriculture with very great care and find that it discriminates thoroughly and in the most equitable manner between the dealer in real and fictitious products, imposing its burthens upon the latter, and protecting the dealer in real products from the destructive competition of the short-seller and the speculative hedger, and it seems calculated to afford the needed protection to the nation's greatest industry. C. WOOD DAVIS.

Government Report on Farm Animals. The returns for January, 1896, show as the total number of horses 15,124,057, mules 2,278,946, milch cows 16,137,586, oxen and other cattle 32,085,409, sheep 38,298,783, and swine 42,842,759.

The average farm prices per head are estimated for horses \$33.07, mules \$45.29, milch cows \$22.55, oxen and other cattle \$15.86, sheep \$1.70, swine \$4.35. The aggregate values are for horses cows \$363,955,545, oxen and other cattle \$508,928,416, sheep \$65,167,635, swine \$186,529,745, grand total \$1,727,926,084.

In number, horses have decreased 4.8 per cent., mules 2.3 per cent., milch cows 2.2 per cent., oxen and other cattle 6.6 per cent., sheep 9.4 per cent., swine 3.0 per cent., since January 1895. The cotton States and a few of the Rocky Mountain States show an increase in horses and mules, otherwise the decrease is general. Milch cows are more numerous in the Northeastern or city-supply States, also in Minneboth labor and capital to produce the sota, the Dakotas and westward, fewer

sheep generally distributed, except in the mountain region. Swine have increased generally throughout the East, South and West, with a falling off in the great central States.

In reported price per head, horses, mules and swine are lower than in January, 1895, while milch cows, other cattle and sheep are higher.

In aggregate value, horses have decreased 13.3 per cent., mules 7.0 per cent., sheep 2.3 per cent., and swine 15.0 per cent., during 1895, while milch cows have increased 0.4 per cent., and other cattle 5.4 per cent. The grand total of all live stock has fallen off \$91,-520,222, or 5.0 per cent. from January, 1895; decline since January, 1894, 20.4 per cent.; since January, 1893, 30.4 per

Estimated wool product of 1895, sheared, butchered and pulled, 309,-748,000 pounds.

HOW FRICTION IS OVERCOME.

What Roller Bearings and Ball Bearings are Doing for the Manufacturer and the Farmer.

The profits on manufactured articles are so small nowadays that manufacturers are compelled to adopt every means possible for saving labor, for taking advantage of every ounce of power and for preventing wear. In the larger factories this desired end is being beautifully accomplished by the application of roller bearings or ball bearings to the shafts, axles and gears of every class of machine, from delicate lathes and spindles to ponderous rolling mills. Roller bearings are employed where the weight and strain are considerable, and ball bearings where a very high rate of speed, under less pressure, is desired. In Albany, Troy, Rochester and Brooklyn, N. Y.; Paterson, N. J.; Attleboro, Mass., and other cities, street cars are run on roller bearings. The Delaware & Hudson Canal Co., has a train of five passenger cars that have already run over 150,000 miles on one set of roller bearings, at a net saving of power and coal of fully 30 per cent.

Roller bearings or ball bearings are used in shafting pulleys in dozens of large manufactories. These establishments report an average saving in power of from 25 to 50 per cent.

But without doubt, the most important use of roller bearings at the present day is their application to harvesting machines by the Deering Harvester Co., at Chicago. These bearings make the Deering binders two-horse machines, even in conditions which call for four horses on the old-line machines without roller bearings. They make the Deering mowers so light in draft that one man can draw the machine, cutting a full swath.

The roller bearings not only make the draft extremely light, but they lengthen the life of the machines and save repair bills by preventing wear on the moving parts.

A most interesting description of the use of roller bearings is contained in a pamphlet called "Roller and Ball Bearings on the Farm," which the Deering Harvester Co. is sending free to any farmer requesting it. It is decidedly worth reading.

The whole secret of the wonders accomplished by the "rolling bearings," whether they be rollers or balls, is that they change the ordinary sliding or scraping contact of the axle to rolling contact. To use a homely expression, leaves it in the very best condition and pothese bearings "put roller skates onto sition for the use to which the farmer the axles."

Farmers' Institutes.

Farmers' institutes have been appointed for the following places and dates, and will be attended by the rep-resentatives of the Agricultural college named:

Newton-March 5-6, Profs. Walters and Garden City-February 26-28, President

Fairchild.

Iola—February 14, Prof. Failyer. Concordia—February 27-28, Profs. Gra-ham and Georgeson. W. S. James, Presi-

Much of life's misery is due to indigestion; for who can be happy with a pain in his stomach? As a corrective and strengthener of the alimentary organs, Ayer's Pills

Always

Taking cold, is a common complaint. It is due to impure and deficient blood and it often leads to serious troubles. The remedy is found in pure, rich blood.

"I am not very strong and sometimes need a tonic to help me battle against sickness. I find that two or three bottles of Hood's Sarsaparilla is just what I need. I have taken it occasionally for several years and do not have any doctors' bills to pay." Miss Janie Higgins, 55 Beaufain St., Charleston, S. C. Remember

Hood's Sarsaparilla

Is the One True Blood Purifier. \$1; 6 for \$5.

Hood's Pills easy to buy easy to take

How to Puddle a Small Ditch.

EDITOR KANSAS FARMER:-Please say to those who are irrigating from pumps, that I find that a V-shaped trough drawn in a furrow a few times will puddle it so it will run water nearly as well as a wooden trough. It is a great help. I ran water fifteen rods in a few minutes where it took three days for it to get half way without.

Leoti, Kas. MILTON ST. JOHN.

CATARRH is a constitutional disease and cannot be cured by local applications. Hood's Sarsaparilla is a constitutional remedy; it cures catarrh because it purifies the blood.

Hoon's Pills are purely vegetable and do not purge, pain or gripe. Sold by all druggists.

The Solid Through Trains

of the Nickel Plate Road, equipped with the most modernly constructed day coaches and luxurious sleeping and dining cars, il-luminated throughout with the famous Pintsch gas lights and colored porters in charge of day coaches, are some of the features of this popular line that are being recognized by travelers seeking the lowest rates and fast time.

\$400 in Prizes on Oats and Corn.

Last year we offered \$200 for the biggest yield on oats. 209 bushels Silver Mine was raised per acre. This year we offer \$200 more on oats, \$100 on Silver King Barley, a barley yielding in 1895 116 bushels per acre, and \$100 on Golden Triumph Yellow Dent Corn, the corn of your dreams! What's Teosinte and Sand Vetch and Sac-

aline and Lathyrus and Giant Spurry and Giant Incarnate Clover and lots of such things? They'll make you rich if you plant a plenty. Catalogue tells you!

If you will cut this out and send it with 10 cents, postage, to the John A. Salzer Seed Co., La Crosse, Wis., you will get free ten grasses and grains, including above oats, barley, corn, spurry and their mammoth catalogue.

Preparing Sod for Corn.

A farmer who takes great pains to plow under a sod for his corn crop and covers everything with the greatest care so that the herbage will decay and make food for the plants makes a lamentable mistake when he tears up the sod again, by using spike-tooth or the spring-tooth harrows, and leaves the grass roots on the surface to grow and make weeds and work for the hoe. There is but one implement which will work a plowed under sod in the best manner, and this is the "ACME" Pulverizing Harrow, Clod Crusher and Leveler, for with its long, curved coulters it cuts the land into slices and breaks up the surface, while it presses the sod firmly under it and intended to put it, viz., a provision for feeding his corn crop. See advertisement on page 14.

Ho! for Cripple Creek.

Remember that the Chicago, Rock Island & Pacific is the only line running directly from the East to Colorado Springs, the natural gateway for the Cripple Creek district.

Colorado Springs lies at the foot of Pike's Peak at its eastern base, and Cripple Creek is part way down the southwest slope of Pike's Peak and near its western base.

Two all rail routes from Colorado Springs are offered you. One by the Midland railway up Ute Pass, via Summit, to Cripple Creek. Another over the Denver & Rio Grande, via Pueblo and Florence, to Cripple Creek. Take the Great Rock Island Route to this wonderful gold mining camp. Maps, folders and rates on application. Address JNO. Sebastian, Gen'l. Pass. Ag't,

Borticulture.

PRUNE THE GRAPE VINES NOW! HOW?

Now is the time to prune grape vines, if this annual duty has not yet been attended to. Several methods of pruning and training have been advocated, and any of them is better than none, and yet no pruning is almost as good as indiscriminate cutting. The first point to remember is that the fruit grows from buds on last year's wood. The second point is that the vines usually provide a great many more of these buds and will generally set a great deal more fruit than they can bring to the perfection desired. In an exceptionally excellent paper on the grape, read before the State Board of Agriculture in 1895, Prof. Mason gave directions for pruning, which are the best ever published, because, besides being correct they are easily understood. These were published in the KANSAS FARMER last spring, but the editor is sure no better use can at this time be made of the needed space than to repeat Prof. Mason's remarks on this branch of the subject. He said:

"If the vines are rather young and small, two canes about three feet long will be all they should carry. At a year older, or with stronger vines, four canes may be put up, two on either side. Nothing is gained, however, by crowding young vines or allowing them to bear too much fruit while young and weak.

"When well grown, or say the third year from setting, five or six canes may be saved, arranged in a fan-like manner upon the lower wires.

"The pruning of vines is, to the beginner, the worst problem of grape-raising. With the tangle of vines found on the wires at the end of a good year's growth, it is not strange that one feels at an utter loss to know where to begin or what to take. No fixed rule can be laid down, easy as the

different systems may appear on paper. "Each vine must be given a little separate study. While a glance will show the expert what to do in each case, it will pay the beginner to take a little time to it. The natural thought is that the vine will be ruined by such severe pruning, and the tendency is to leave too much wood rather than to remove too much. I have seen very few vines injured by over-pruning.

"The time to prune is any time from the falling of the leaves in autumn till the sap begins to stir in the spring. A pair of shears good enough for the work on a few dozen vines can be bought at any hardware store at from 50 cents to \$1. If the vines are old, with large, old canes that should be removed, a pruning saw should also be provided.

With a well-defined plan in mind of what sort of a vine you want to leave when pruned, take a good look over your first vine to see how nearly this plan can be carried out. Remember rieties and that in nine out of ten cases that the bearing wood, as it is called, is the young wood of the past season's growth. From the buds on these canes will push branches, next spring, which will set one, two, three, or even four, bunches of fruit near the base, and then continue to grow as a vine. What of parents. you want for bearing wood is a strong healthy cane, with firm, well-ripened gan experimented with a Smock Free. wood, and sound healthy buds. According to the age and strength of the found the pit split, and that it contained vine, you want from two to six of these two seeds. These he carefully planted, canes, two to four feet long, as well marking same. The result was two placed for fan-shaped arrangement as you can get them, and starting from the main vine as near the ground as can be selected.

"The stronger growth in grape vines always tends to the top, hence if you select your best canes regardless of position, many of them will be high up, and you will be working your bearing wood further away from the ground and would soon have it beyond the trellis entirely. Decide upon the canes you wish to leave, begin at the base of each, clip it clear of all tendrils and this is the greatest objection, as clings branches out to about four feet, or less do not command as good price as if the wood is not well matured, and "frees." I am still investigating along if the wood is not well matured, and cut it off. Leave two or three short this line. I have some 200 selected spurs of two buds each near the center at the base of the vine, to produce re- ties that I hope to fruit.

is done your pruning of the vine is completed. The rest of the task is simply to clear the vine and trellis of useless canes. No, your vine is not ruined, and do not allow your wife or anybody else to make you think it is.

"The prunings should be carefully gathered and burned, what you do not want to make cuttings of. There is a short, cylindrical, black beetle, dignified by the name of Amphiceras bicaudatus, which becomes a serious vineyard pest in some localities, working also on apple and some shade trees. Its work may be recognized by a round hole bored in the axil or forking of a branch. These beetles are harbored in old grape trimmings, and hence the importance of burning them.

"In tying up the canes they should be put on the two lower wires for the most part, and fastened in a somewhat curved position, rather than carried out straight. This slightly obstructs the flow of sap, and counteracts the natural tendency for the strongest growth to be made from the upper buds on the cane, while the lower ones suffer or do not start at all."

Alfalfa in Orchards.

EDITOR KANSAS FARMER:-I notice several inquiries in your paper, from subscribers, in regard to alfalfa in orchards. I have a dear experience in regard to it. About eight years ago I planted an orchard. It did well for four years, when I seeded to alfalfa, being recommended by others to do so. Now the trees are badly stunted and would undoubtedly have died had I not kept them well mulched. One of my neighbors lost nearly all of his trees by seeding to alfalfa. I have another orchard, planted two years later, in good thrifty condition and trees larger than former ones. I can show a number of thrifty orchards in this vicinity on very high ground where trees are kept in cultivation. I am also informed by a gentleman from Jefferson county, Nebraska, of orchards ruined there by seeding to alfalfa.

I invite any one to come here to see for himself. I value an orchard too highly to be trifled with, although they may do well where land can be irrigated. Weeds will grow a few months and die, but alfalfa grows the whole season, sapping the ground of moist-

Alfalfa is a success here in the bottom land only. S. ERNST. Glen Elder, Mitchell Co.

Several Seedling Peaches.

EDITOR KANSAS FARMER:-In your last issue is an article on seedling peaches by Hans Rasmus, in which he speaks of the "Corning peach reproducing itself from seeds." Now, Mr. Editor, I am greatly in favor of peach propagation from seeds, and believe that peach propagation from seeds will generally give satisfaction. True, it may not always happen that you will get the same variety, but I assert that it will pay to try the seeds of select vasatisfactory results will follow.

Some twenty-five years since, Mr. Ryus, of this county, planted an or-chard of some 200 peach seedlings, from Illinois-grown fruit, and the result was very satisfactory, all having the types

About the same time, Maj. Z. S. Ra-On eating a very fine specimen, he Smocks, but one was a cling. They were the same in size, color and nearly so in quality.

Some seven years since, I received a box of exceptionally fine Salway from Olden, Mo. We grew this variety in large blocks at that place. I planted 150 trees from these seeds and to-day have 100 trees in bearing. All are fine, large, yellow peaches, having distinct Salway parentage, yet differing in time of ripening from three to four weeks. Quite a number are clings, and seed in general of a number of varie-

newal canes for next year. When this I would not be understood as trying

to discourage the present system of peach culture, but that those who are unable to secure budded stock can hope to eat good peaches (their own seedlings), by a little effort. I would suggest that only good peaches be used as seed, and as far as practical avoid clings for planting. I would avoid planting the extra early sorts, as there is little or no demand for the extra earlies, as none of them ripen through or evenly. You may in this way secure something of still greater value.

A neighbor of mine has produced a seedling (as yet unnamed) that for market value has no competitor for its season. What is most needed is a medium large, red-cheeked, whitefleshed good quality peach to follow Old Mixon Free. I think he has it. Rosedale, Kas. F. HOLSINGER.

Italians vs. Black Bees.

Having noticed articles on bee culture in the Kansas Farmer for some time, I decided to write you in regard to the Italian bee. Do you think them more profitable than the common black bee, and when is the best time to purchase them? I have plenty of alfalfa pasture close at hand.

Mrs. O. R. MRS. O. R.

Utopia, Kas., January 24, 1896.

In answer to above inquiry, I will say, that the superiority of the Italian bees over the common or black bees is not generally well understood. We would just say that if persons having the black bees would substitute Italians in their stead, they would soon give you to understand that something unusual, in the apiary, had taken place. In the first place, Italian bees are absolute proof against moth worms, which are so destructive to black bees. Italians will go farther for honey, and carry larger loads; they will work in cooler weather, work earlier in the mornings and later in the evenings. Italians have longer tongues and can reach the nectar in flowers that the blacks cannot. Italians will stick close to the comb, and are gentle to handle, while the blacks will run over the combs and entirely leave them while handling, and will sting you at every opportunity. . To give the Italian bees credit over the black with double the amount of honey and double the amount of increase does them hardly the credit due them. Our bee-keepers now number in the thousands, and not a single apiarist is reported as keeping black

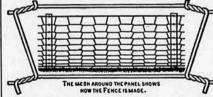
The best time to start in bees is in early spring. You do not then run the risk of wintering, and you have the full benefit of the bees the first year. If your bees have access to plenty of alfalfa pasturage they should store you two or three hundred pounds of honey per colony and double in numbers.

Larned, Kas.

A. H. Döff.

For cure of rheumatism, neuralgia, cuts, sprains, burns, stings, chilblains, sciatica, and lumbago, use Salvation Oil.

KEYSTONE WOVEN WIRE FENCE



Combines more points of merit than any other fence made. A trial will convince you. Write for catalogue.

KEYSTONE WOVEN WIRE FENCE CO., PEORIA, ILL.

\$140 Free.DANIEL F. BEATTY, Washington, N.J.

CRAPE VINES

Evergreens and Forest Trees

At \$1 per 1,000 and upwards. Price list free. Address C. A. COCAGNE & CO.,
Mention FARMER. Sawyer, Door Co., Wis.

Market Radish, three leading vegetable Novelties, 1 pkt. each for only 10 cts. Or three Flower Novelties—Pansy Large German, Cosmos Giant Perfection, and Zinnia New Giant, 1 pkt. ea. for only 10c, or the two collections together with a pkt. of CUPID, the new dwarf Sweet Pea, for 80c, prepaid, worth 60c. Our Handsome Carden Annual Free. Write for it. COLE'S SEED STORE, - PELLA, IOWA.





It is not Sweet Potato Vines

Sweet Potatoes

Our Vineless "Gold Coin" Prolific Swe Potatoes are Maryelous in Vield as cheapness of production, and superior in gui ity. The Indiana Farmer, our home far paper editorially highly endorses then

600 BUSHELS PER ACRE

Is a Small Yield for them.

We tell you all about them in our handsome new catalogue which we will mail FREE if sent for at once.

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In the Dairy.

Conducted by A. E. Jones, of Oakland Dairy Farm. Address all communications Topeka, Kas.

Feeding Fat Into Milk.

A subscriber at Papineau, Ill., asks this question: "Does the special feeding of cows increase in them the percentage of butter fat?"

It is the common opinion of dairymen that the food exerts a great influence upon the quality of the milk, although experiments have long since shown that, in most cases, the quality of the milk is dependent upon the individuality of the cow and is very little affected by food. The first experiments leading to these conclusions were made in Germany, but several of the American experiment stations have operated along the same lines, and in general have confirmed the results of the foreign experimenters. These experiments, for the most part, have been made to show the influence of rations relatively rich or poor in nitrogen upon the quality of the milk. Comparatively few experiments have been made to show the influence of rations relatively rich or poor in fat upon the milk. There have, however, been some experiments made upon feeding foods rich in fat.

The most important of those made in this country were made by Wood, of the New Hampshire Agricultural Experiment Station, in which cottonseed oil, palm oil, cocoanut oil, oleo oil and stearin were added to a ration composed of hay and ensilage and a grain ration of eight pounds of equal parts of ground oats and middlings. The oils were fed in turn to three different cows, in periods of two weeks each. Daily analyses of the milk were made, and the conclusions arrived at were as follows: "That the first effect of an increase of fat in the cow's ration was to increase the per cent. of fat in the milk." "That with the continuance of such a ration, the tendency was for the milk to return to its normal condition." "That the increase in fat is not due to the oils, but to the unnatural character of the ration." "That the results of feeding oils tend to confirm the conclusions that the composition of a cow's milk is determined by the individuality of the cow, and that although an unusual food may disturb for a while the composition of the milk, its effect is not

On the other hand, some experiments made by Mr. H. VanDresser, of Cobleskill, N. Y., showed a remarkable increase in the yield of fat by the addition of tallow to the ordinary ration. Mr. VanDresser's methods and results were as follows: The cows, thorough-bred Holsteins, had been receiving a ration of thirty pounds of ensilage per day with hay at noon, with a grain ration of six pounds of a mixture of two parts of wheat bran and one part of cottonseed meal and corn meal. The skim-milk was also fed back to the cows. At the beginning, one-quarter of a pound per cow per day of clean beef tallow was shaved up and mixed with the grain ration. The cows ate the tallow readily, and in the course of two weeks the amount was increased to two pounds per day. At the end of five weeks, a week's butter test was made of each cow, and resulted in a gain of from 30 to 98 per cent. The result of this experiment was so striking and so contrary to similar experiments, that the Cornell University Station deemed it worth while to carry the investigations a little further. Five cows were selected and fed nearly the same as those just described, belonging to Mr. Van-Dresser. The fat was determined in each milking separately by the Babcock test. The experiment was continued until the end of the tenth week, when the tallow was discontinued and the milk weighed and fat determinations made for two weeks longer. From Bulletin No. 92 of the Cornell Station, the table which is appended notes in general that there was no effect in either the yield of milk or percentage of fat that could be traced to the feeding of the tallow. During the first two or three weeks the percentage of fat rose slightly, but toward the close the per cent. of fat fell slightly with some of the animals. In conclusion it says:

'In this quite extended trial there has been no increase in the fat in the milk by feeding tallow to the cows in addition to a liberal grain ration." For a period of six weeks these cows ate two pounds per head per day of tallow. It also appears from tests made at other stations that there is more in the type of cow than in feed, and it seems that the only way to increase the amount of fat is by increasing the amount of milk. Since the per cent. of fat cannot be augmented by feeding, we can arrive at the same result by liberal rations, which will increase the flow of milk and thereby increase the total yield of fat.

About Young Heifers.

If you keep the young heifers off in one corner of the stable, and feed and care for them after all the other animals have been attended to, and that in an indifferent manner, they are likely to prove poor property when they become milkers. It is a popular fallacy that young stock require only second-class feed and second-class care. I tell you, heifers must be treated on equal terms with milch cows. All the future usefulness of a milk animal may depend on how she fares before her first pregnancy. True, she does not need a milkforming diet, but she requires a tissue and a bone-forming one, for a future reserve force when she becomes a cow.

The amount of flesh on a young animal's back does not necessarily represent physical force, vitality, or sound tissue. It may be merely fat, without a relative development of sinew, bone and muscle. A heifer will stand more exercise than a cow, but she wants just as warm a stable, and should not be made to bow down and worship the straw stack. Plenty of good hay with a supplement of roots, or, in this winter of hay scarcity, ensilage and cut straw. with a light grain addition, form excel-lent rations. The object should be to combine foods so as to get growth of a sound, permanent character.--Ex.

A New Milk Fraud.

A new fraud is practiced by milk dealers, which cannot be reached under existing statutes, according to the annual report of the Massachusetts Dairy Bureau. It appears that certain milk, when tested, has the required amount of milk solids, but the percentage of fat is very low. It has been found that state of affairs is due to the addition of a condensed skimmed milk, after the cream has been removed by the dealer. The report says that the dealer practicing this fraud cannot be successfully prosecuted, because it cannot be proved that the cream has been removed, and the addition of the condensed skimmed milk is not an addition of "a foreign substance" prohibited by statute. It appears that a concern in New York is doing a thriving business in furnishing dealers with condensed skim-milk.

Sorghum for Milch Cows.

EDITOR KANSAS FARMER:-I want information about feeding sorghum fodder to milch cows. Does it diminish the flow of milk? I have been told it does.

If it is a good fedder ration to be used with bran and other ground feed, I would prefer it to anything else, for several reasons, and will plan to have it in future if I can find it is the thing to do. Baldwin, Kas. A. AULT.

A Manual of Instruction in Apiculture.

"The Honey Bee-A Manual of Instruction in Apiculture," by Frank Benton, M. S., of the Division of Entomology of the Department of Agriculture, is just issued.

The apiarian industry in the United States is practically a development of the last forty years, although isolated individuals were engaged in this work long prior to that time. The importance of the industry at the present day is not generally realized, and the following figures will probably be sur-

prising to many well-informed individuals:

viduals:
Apiarian societies in the United States,
Apiarian journals.
Steam factories for the manufacture of
bee-hives and apiarian implements.
Honey produced in the United States
in 1869 (according to United States
census Report) pounds.
14,702,815
Honey produced in the United States
in 1889 (according to United States
in 1889 (according to United States
Census Report) pounds.
63,894,186
Persons engaged in the culture of bees
(estimated).
Solution of the present
annual value of apiarian products.
20,000,000
Mr. Benton's estimate of the present
annual value of apiarian products.
20,000,000
Prof. L. O. Howard, the Entomolo-

Prof. L. O. Howard, the Entomologist, says that "the constant demand for information concerning bee culture has for a long time shown the need for such a public manual," and the author's aim is stated by himself as follows: "It is designed to make the practical management of an apiary plain to those whose acquaintance with the subject is limited, and to direct such as may find in it a pleasant and profitable occupation into a system of management which may be followed on an extensive scale with the certainty of fair remuneration for the labor and capital required." The chapter headings embrace such subjects as: Classification of the bee; kinds of bees composing a colony; bee products and descriptions of combs; development of brood; quieting and manipulating bees; establishing an apiary; hives and implements; hee pasturage; spring manipulation; securing surplus honey and wax; rearing and introducing queens; increase of colonies; wintering bees; diseases and enemies of bees; brief list of books and journals relating to api-

This bulletin, which is No. 1, new series of the Division of Entomology, has 119 pages, 12 plates and 76 text figures. The edition is limited by the law of January 12, 1895, to 1,000 copies. This is barely sufficient to supply the libraries on the Department's list, the agricultural colleges and those to whom the Department is indebted; a limited number, however, will be disposed of by the Superintendent of Documents, Union building, Washington, D. C., at 15 cents per copy.

Heart Disease Cured

By Dr. Miles' Heart Cure.

Fainting, Weak or Hungry Spells, Irregular or Intermittent Pulse, Fluttering or Palpitation, Choking Sensation, Shortness of Breath, Swelling of Feet and Ankles, are symptoms of a diseased or Weak Heart.



MRS. N. C. MILLER.

Of Fort Wayne, Ind., writes on Nov. 29, 1894: "I was afflicted for forty years with heart trouble and suffered untold agony. I had weak, hungry spells, and my heart would palpitate so hard, the pain would be so acute and torturing, that I became so weak and nervous I could not sleep. I was treated by several physicians without relief and gave up ever being well again. About two years ago I commenced using Dr. Miles' Remedies. One bottle of the Heart Cure stopped all heart troubles and the Restorative Nervine did the rest, and now I sleep soundly and attend to my household and social duties without any trouble.

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Over Thirty Years Without Sickness.

Mr. H. WETTSTEIN, a well-known, enterprising citizen of Byron, Ill., writes: "Before I paid much attention to regulating the bowels, I hardly knew a well day; but since I learned the evil re-

sults of constipation and the efficacy of

AYER'S

Pills, I have not had one day's sickness for over thirty years

- not ne attack that did not read: yield to this remedy. My wife had been, previous to our marriage, an invalid for years. She had a prejudice against cathartics, but as soon as she began to use Ayer's Pills her health was restored."

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Pain often con-centrates all its Misery in ST. JACOBS O The Composition and Cooking of Meats.

During the past two years the Department of Agriculture has been making nutrition investigations, by Congressional provision, and some of the results have already been published. Farmers' Bulletin No. 23, "Foods—Nutritive Value and Cost," was issued in January, 1895, and deals with a large number of meats and vegetables. The latest bulletin issued on this class of subjects is on "Meats—Composition and Cooking," by Chas. D. Woods, of the Office of Experiment Stations. Like Bulletin No. 23, it is designed to meet a demand for information of a popular character and is therefore included in the Farmers' Bulletin series as No. 34. It summarizes the results of investigations regarding the nutritive value of different kinds of meat, and points out some of the things which should be considered in the cooking of meats for different purposes. It compares animal and vegetable foods, explains the structure and composition of meats, texture, and flavor, discusses their digestibility and methods of cooking, and closes with a table of the chemical composition and fuel value of meats per pound. Four black-line diagrams illustrate percentages of edible and refuse portions of meat, and four figures show the cuts of beef, calf, hog, and

Application for this bulletin should be made to the Secretary of Agriculture, Washington, D. C.

Beware of Ointments for Catarrh that Contain Mercury,

as mercury will surely destroy the sense of smell and completely derange the whole system when entering it through the mucous surfaces. Such articles should never be used except on prescriptions from reputable physicians, as the damage they will do is ten-fold to the good you can possibly derive from them. Hall's Catarrh Cure, manufactured by F. J. Cheney & Co., Toledo, Ofhio, contains no mercury, and is taken internally, acting directly upon the blood and mucous surfaces of the system. In buying Hall's Catarrh Cure be sure you get the genuine. It is taken internally and is made in Toledo, Ohio, by F. J. Cheney & Co. Testimonials free. articles should never be used except on pre-

"Farmer's Ready Reference, or Handbook of Diseases of Horses and Cattle." few copies yet on hand that will be sold for \$1 each, by mail. The chapter on "Corn Stalk Disease" alone worth the price. Ad-dress S. C. Orr, V. S., Manhattan, Kas.

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The FARMER takes pleasure in calling the attention of its readers to Perine's subsoil plows. That subsoiling is no longer an experiment has been satisfactorily proven and demonstrated. Mr. A. B. Perine, of this city, is the inventor, manufacturer and patentee of the original Perine's subsoil plow. No higher compliment could be attributed to the popularity of the plow, than the fact that other plow companies are trying to profit from its success, by attempting to imitate Mr. Perine's invention. During the months of February, March and April, 1895, Mr. Perine was not nearly able to supply the demand for his plows, and present indications are that he will experience another rush this season. He has enlarged his plant and secured additional machinery. But as a special inducement for early orders he will include a year's subscription to either the Kansas Farmer or Topeka Advocate to those who will purchase a plow before February 15, 1896.

The prices of the genuine Perine subsoil

pl	ows are a	s follows:		
N	o. 1 plow	for four horses.		.\$12.0
		Extra points		2 2
N	o. 2 plow	for three horses	3	. 11.00
		Extra points		
re	Address mittance	all communicati	ions and	make

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HOME TREATMENT FREE.

Catarrh Cured by Thousands Under Dr. Hartman's Free Treatment.

Catarrh of the nose and head produces discharge from the nose, sneezing, and pain in the eyes and forehead, weak, and some-times watery eyes, and occasionally loss of memory. Unless something is done to prevent, the catarrh will follow the mucous membrane into the lungs, where it will be followed by cough, night sweats, rapid loss of flesh, and the other dread symptoms of consumption.

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Address The Pe-ru-na Drug Manufacturing Company, of Columbus, Ohio, for a copy of their latest catarrh book, instructively illustrated, and contains sixty-four pages of the latest information on catarrhal diseases. Sent free to any address.

Special Want Column.

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. Cash with the order. It will pay. Try it!

SPECIAL.—Until further notice, orders from our subscribers will be received at 1 cent a word or 7 cents a line, cash with the order. Stamps taken.

DISEASES OF YOUNG AND OLD MEN. — Private and skin diseases a specialty. Wm. H. Righter, Ph. G. M. D., 503 Kansas Ave., Topeka, Kas. Correspondence solicited.

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WANTED—A good, trusty man, single preferred, for general work on a farm, understand feeding and care of stock. Best of references required. Steady employment given to the right man. Address T. Saxon, 709 Topeka Ave., Topeka, before March 1.

SHORT-HORN BULLS—Cruickshank-topped, for sale. Choice animals of splendid breeding. Ad-dress Peter Sim, Wakarusa, Shawnee Co., Kas.

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FOR SALE—Mammoth Bronze turkeys from prize-winning stock. Young toms weighing twenty-five pounds. Harry Killough, Richmond, Kas.

40 IMPROVED FARMS FOR SALE—In Morris county, Kansas, on the installment plan. One-eighth each year till paid. No interest added in or saked. Morris county has fine soil, large fruit orchards, and you will find our farms will make desirable homes. Write for particulars. Hal W. Nelswanger & Co., Topeks, Kas.

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SEED POTATOES AND CORN.—Early Ohio seed from Northern stock, large and fine, at 50 cents a bushel. Ninety-day yellow dent corn, first prize at World's fair, 75 cents per bushel. Sacks free. E. L. Jones, Box 224, Topeka, Kas.

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WANTED—Buyers for Large English Berkshires and improved types of Poland-Chinas, from prize-winners, at farmers' prices. Riverside Stock Farm, North Topeka, Kas.

WANTED—Readers of the KANSAS FARMER to try our "Special Want Column." It is full of bargains and does the business. For less than one dollar, 2-cent postage stamps are acceptable.

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FOR SALE—B. P. Rocks at \$1 each where more than one is wanted. Mrs. E. E. Bernard, Dunlap, Morris Co., Kas.

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TO TRADE FOR STOCK—Southeast quarter sec-tion 36, 27, 17. Klowa county, Kansas. Also lot 1, block 58. Chandler, Oklahoma. Milo M. Mitchell, Calista, Kas.

STRAWBERRY, RASPBERRY AND BLACK-berry plants at lowest prices. J. C. Banta, Law-rence, Kas.

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KAFFIR, MILLO MAIZE, MILLET, SORGHUM seed, each 35 cents per bushel, sacked. Black rice corn \$1. Willis K. Folks, Wellington, Kas.

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Carnahan's Tree Wash and Insect Destroyer

Destroys the bore worm and apple root louse, protects the plum from the sting of the curculto and the fruit trees from rabbits. It fertilizes all fruit trees and vines, greatly increasing the quality and quantity of the fruit. Agents wanted everywhere to sell the manufactured article. Address all orders to John Wiswell, Sole Mfr., Columbus, Kas.

100.00 for a tive-acre farm, covered with wood, in Southern New Jersey; close to railroad; finest markets in the world; especially adapted for small fruits, poultry, vegetables, etc. high and dry; healthy neighborhood; sold on installments of \$1\$ down and \$1\$ per week, title insured. Immediate possession. Send for full particulars. D. L. RISLEY, 211 S. 10th St., Philadelphia, Pa.

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Does a general tanning business, including rober, rugs, etc. Tanning Galloway hides for robes a specialty. First-class work, reasonable prices. All kinds of leather in stock—best quality. Have you any oak bark? Good prices paid for it. Write me. M. C. BYRD, Lawrence, Kas.

T<u>⊪</u>Western Trail

Is published quarterly by the Chicago, Rock Island & Pacific Rallway.

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++++++++++:+++++++++ J. H. BRUNNER, Marshalltown, Iowa, writes: January 31, 1896. "It is with great pleasure that I recommend Dr. Kay's Renovator, especially for what you claim for it, a remedy for worn-out business men. I have had a tired and languid feeling in my limbs over a year and I concluded to wear it out, but gave it up, as I was growing worse. I have now taken two 25-cent boxes, and will say I am now entirely free from that feeling. I am confident that your Dr. Kay's Renovator will remove that tired and languid feeling, usually called spring fever, and shall treasure it as a household panacea and recommend it to all affilicted with that malady."

The many cures, without a failure, attest the fact that

Kay's Renovator

is a positive cure for the worst cases of headache, dyspepsia, constipation, liver and kidney diseases and all nervous and blood diseases, bilioueness, despondency, female diseases, etc. AT THIS TIME OF YEAR it is invaluable, as it renovates and invigorates the whole system and purifies and enriches the blood, giving new life and vigor to the whole body. The very best nerve tonic known. Very pleasant and easy to take. IT HAS TWO TO FOUR TIMES AS MANY DOSES AS LIQUID MEDICINES SELLING FOR SAME PRICE. Sold by druggists or sent by mail on receipt of price, 25 cents and \$1. Send for the booklet; it treats all diseases and many say it is worth \$5, if they could not get another. Sent free from our Western office. DR. B. J. KAY MEDICAL CO. 620 S. 16th St., Omaha, Neb.

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HEESEN BROS. & CO., Patentees and Migrs. Tecumseh, Mich.

The Veterinarian.

We cordially invite our readers to consult us shenever 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. Sometimes parties write us requesting a reply by mail, and then it ceases to be a public benefit. Such requests must be accompanied by a fee of one dollar. In order to receive a prompt reply, all letters for this department should be addressed direct to our Veterinary Editor, Dr. S. C. Orr, Manhattan, Kas.

SICK HOG .- I have a hog that had the cholera and seemed to get well, but it got sore between the toes and swelled up as big as a man's arm; and one hoof got loose and one of the bones is coming out, and now the other foot is get-ting the same way. What shall I do? Kimball, Kas. J. R. Z.

Kimball, Kas. Answer.-Kill it and burn it up as soon as possible.

WART.—Please give me a cure for a wart on a horse's leg. W. P. Plainville, Kas.

Answer.—Some warts are easily cured and some are very difficult to get rid of. Sometimes rubbing on a little castor oil once a day will do the work. Coal oil may be applied in the same way. Sometimes it is necessary to cut them out, then burn the part with lunar caustic; or it may be done with a hot

SICK COW.—I have a Jersey cow, 6 years old, that slobbers when she eats and is losing flesh rapidly. The left side of her face is swollen and some times the corn lodges between her cheek and teeth. When she chews her cud the water runs from her mouth in a stream.

Eskridge, Kas. Answer.—Your cow may have some foreign body lodged back in her mouth, or she may have received some injury there, either of which can only be determined by examination. Or she may be affected with lumpy-jaw. Apply a liniment once a day of raw oil, turpentine and ammonia mixed in equal parts.

ENLARGED KNEE-SICK MARE. I have a bull 2 years old that had one knee begin to enlarge last August and now it is about a third larger than the other one and has become hard. (2) I have a five-year-old mare that ten days ago took the distemper and ran at the nose, then broke under the jaw and her legs swelled, and now there are some lumps coming on her legs.

C. H. W.

Cheney, Kas. Answer.-(1) Apply to the enlarged knee once a month a blister made of 1 drachm of powdered cantharides, 1 ounce of lard and 1 ounce of turpentine. mixed together. (2) Give your mare one of the following powders in feed or on the tongue three times a day: Nitrate of potash, 2 ounces; sulphate of cinchonida, 2 ounces; mix, and divide into sixteen powders. Keep the mare away from other horses, and take care that none of the discharge gets in any sores on your hands, as such cases are always looked upon with suspicion. If the mare does not improve in three or four weeks you had better have her examined by a veterinarian.

SPAYING HEIFERS.-I would like information in regard to spaying heifers. What is the best age to spay? What season of the year is best? What is the risk? How many can a man spay in a day? Is the operation a difficult one to perform?

E. T. H.

Ness City, Kas. Answer.—The most profitable age for spaying cattle is at, or under one year, as then you get the benefit of growth after the operation, which makes quite a difference in the size and shape of the animal. The only advantage to be gained in spaying old or grown cows is that they can be more easily fattened. The spring of the year is always the best. The risk is a little more than in the castration of males, but it depends a great deal on the condition of the cat-tle, the care of the operator and the care the animals have afterward. The number that can be treated in one day depends altogether on the skill and speed of the operator. I have known men put in a whole day spaying twenty head, and I have known the same numnead, and I have known the same number spayed in two hours. I have frequently spayed fifty head in half a day. It is just like anything else, not difficult if understood. It is always best to have an experienced operator and not trust to some "smart Alec" who wants to learn the business at some other man's expense.



Four out of five who suffer nervousness mental worry, attacks of "the blues," are but paying the penalty of early excesses. Viotims, reclaim your

manhood, regain your vigor. Don't despair. Send for book with explanation and proofs. Mailed (sealed) free.

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THE LAWRENCE-WILLIAMS CO., Cleveland O.

MARKET REPORTS.

Kansas City Live Stock.

KANSAS CITY, Feb. 17.—Cattle—Receipts, since Saturday, 4,656; calves, 50; shipped Saturday, 1,540 cattle, 1 calf. The market was tostrong The following are represent-

ative sa		
SHIP	PING AND DRE	SSED BEEF STEERS.
No.	Ave. Price.	No. Ave. Price.
	1,482 84.20	341,508 \$4.15
80	1,601 4.10	161,390 4.05
10	1,300 3.75	1 910 3.75
4	1,325 3.75	81,825 3.75
01		191,284 3.55
.00		40 Tex1,151 3.60
20		21,060 3.25
2		3 733 3.00
1 can.		
	Waterson and a	NDIAN STEERS.
20	1.187 \$3.50	101.077 83.40
21	1,116 3.40	431,090 3.50
94 fd	806 8.10	52 998 3.25
1		4 985 3.10
	WERTER	N STEERS.
28	1,217 \$3.65	
HASS IN		ERN STEERS.
50	1,093 \$3.50	1 24 1,054 \$3.35
25		231,145 2.50
	ARIZON	
90 44		21 fd1,072 \$3.40
ou id.	1,166 \$3.30	M. 10

90 Id 1,100 po. 00	Mr Id
TEXAS AND I	NDIAN COWS.
25 hf 933 \$3.40	6 925 \$3.15
1 hf 870 3.15	***************************************
COWS AND	
18 900 \$3.40	18 782 \$3.25
6 925 3.10	231,117 3.10
9 967 3.10	8 875 3.10
221.165 2.90	91.111 2.85
8 793 2.85	19 960 2.85
1 570 2.75	8 600 2.75
9 961 2.65	221,005 2.65
11,118 2.50	11,010 2.50
1 910 1.75	4 727 1.75
121,030 2.65	1 870 1.75
STOCKERS A	ND FEEDERS.
54 607 \$3.80	1 1 600 \$3.75
80 430 3.55	41 670 3.55
1 780 2.90	1 870 2.85
1	****** O.O. W.O.A.

1 1 280 2.70	4 510 250	
Hogs-Receipts since	e Saturday, 5,228; shipped	đ
Saturday, 921. The r	narket was fairly active	0
	lowing are representativ	0
ales:		
63 212 \$3.92461 86	200 \$3.90 77228 \$3.90	

0	DO. 0272				
6200		96190	8.90	18196	3.90
6253		112 250	3.90	49193	3.90
8213	3.871/4		3.8714	62263	3.871/
0238	3.871/4		3.871/4	78256	3.871/
9294	3.871/4	67272	3.8714	50384	3.871/
9240	3.8714	58274	3.871/4	57294	3.871/
39241	3.8714		3.871/4	78207	3.85
72246	3.85	99228	3.85	79211	3.85
7332	3.85	63298	3.85	76243	3.85
13154	3.821/4	47334	3.821/	96196	3.821/
32180			3.8214	45207	3.821/
33295	3.821/4		3.8214	89185	3.80
71222		15197	3.80	23368	3.80
57317		90199		57389	3.80
44260		83185	3.771/4	25 105	3.75
22 85		80200		1500	3,50
68251	3.50	38 200	3.30	1100	8,40

Sheep—Receipts since Saturday, 2,249: shipped Saturday, 286. The following are representative sales:

Saturday, 77. Not much business was transacted at the horse and mule market to-day, although the week's auction sales began. Not all the buyers have returned to the city yet. Prices ruled generally about steady. some cases good horses sold a little stronger and on some grades there was a weakness. The supply is quite heavy, and a large attendance is expected to-morrow.

Chicago Live Stock.

CHICAGO, Feb. 17.—Cattle—Receipts, 14,000; market strong to higher; fair to best beeves 83.50@4.60; stockers and feeders, \$2.75@3.90; mixed cows and bulls, \$1.50@3.65; Texas, \$3.00 @3.90.

Hogs—Receipts, 38,000; market averaging 5c lower; light, \$3.95@4.25: rough packing, \$3.85@3.90; mixed and butchers, \$3.90@4.22½; heavy packing and shipping, \$3.85@@4.17%; pigs, \$3.10

Sheep—Receipts, 30,000; market steady; native, \$2.50@3.65; western, \$3.20@3.60; Texas, \$2.50@3.00; lambs, \$3.25@4.65.

St. Louis Live Stock.

ST. LOUIS, Feb. 17.-Cattle-Receipts, 3,800; market active and firm; native steers, \$3.10@

Hogs-Receipté, 6,000; market 5c lower: heavy, \$4.00@430; mixed \$3.80@410: light, \$4.00 Robt. C. White

Sheep-Receipts, 1,000; market slow. Chicago Grain and Provision.

Feb. 17.	Opened	High'st	Lowest	Closing
Wh't-Feb	63%	68%	63	63
May	66	66%	61%	61%
July	65%	61%	65	651%
Corn-Feb		281/8	281/4	281/4
May		301/4	30	301/4
Sept		321/8	321/4	321/4
Oats — Feb	19%	1914	1914	1914
May	21%	2114	2114	2114
July	21%	2114	2114	2114
Pork—Feb May July	10 05 10 20	10 0714	9 9214	10 20
Lard—Feb May July	5 55 5 70	5 5714	5 55 5 70	5 42 1/4 5 57 1/4 5 72 1/4
Ribs — Feb	5 00	5 021/4 5 221/4 5 30	5 00	5 021/4
May	5 20		5 17%	5 221/4
July	5 30		5 27%	5 30

Kansas City Grain.

Kansas City, Feb. 17.—Wheat here met with very little demand and prices were irregularly lower. Spring wheat was almost unsalable. A good many samples were carried off the floor proced.

Receipts of wheat, 54 cars; a year ago, 12 cars Sales were as follows, on track: Hard, No. 2, 6 cars 66c, 1 car 64½c; No. 3, 1 car 56c, 3 cars 55c, 1 car 50c, 1 car 48c, 1 car 47c; No. 4, 1 car 48c, 55c, 1 car 50c, 1 car 45c, 1 car 47c; No. 4, 1 car 48c, 2 cars 46c, 2 cars 46c, 1 car 44½c, 2 cars 44c, 1 car 40c; rejected, 1 car 40c; no grade, nominally 30 @35c. Soft, No. 2 red, 1 car 75½c, 1 car 75c; No. 3 red, 1 car 70c, 1 car 71c; No. 4 red, nominally 58 @62c; rejected, nominally 54 @58c. Spring, No. 2, heid at 64½@65c; No. 3, 1 car 63c, 1 car 61c, 1 car 60c; rejected, nominally 50 @55c; white, nominally 55 @62c.

Corn was slightly lower. There was a fair demand for both mixed and white, but the feeling was rather weak.

demand for both mixed and white, but the feeling was rather weak.

Receipts of corn, 96 cars: a year ago, 46 cars. Sales by sample on track: No. 2 mixed, 24 cars 22½c: No. 3 mixed, nominally 22c: No. 4 mixed, nominally 21c; white, No. 2, 6 cars 23½c, 3 cars 23½c, 4 cars 23½c, 3 cars 23½c.

Mixed cats were somewhat lower and sold slowly, but white were in good demand and some sales were higher.

Receipts of oats, 14 cars: a year ago, 3 cars. Sales by sample on track: No. 2 mixed oats, 1 car 17½c, 2 cars 17½c, 1 car 17c; No. 3, 2 cars 17c No. 4, 1 car 16½c, 1 car 16c; no grade, nominally 14½c; No. 2 white, 4 cars fancy 20½c, 5 cars 20c: No. 3 white, 5 cars 19c, 3 cars 18½c.

Hay—Receipts, 101 cars: market very dull. Timothy, choice, \$11.00@11.50; No. 1, \$10.00@10.50; No. 2, \$7.50@9.00; No. 3, \$5.00@6.50; choice prairie, \$6.20@7.00; No. 1, \$5.50@4.00; No. 2 \$4.50@5.00; packing hay, \$3.00@4.00.

St. Louis Grain.

St. Louis Grain.

St. Louis, Feb. 17.—Receipts, wheat, 22,555 bu.: last year, 6,500 bu.: corn, 135,000 bu.: last year, 49,-100 bu.; shipments, wheat. 16,998 bu.: corn. 129,-134 bu.; cots, 10,000 bu. Closing prices: Wheat—Cash, 72c; February, 61½c; May, 64½c64½c; July, 62½c. Corn—Cash, 26½c; February, 26½c; May, 26½c; July, 28½c28½c. Oats—Cash, 19c bid; February, 19c; July, 20½c.

Kansas City Produce.

KANSAS CITY, Feb. 17.—Butter—Creamery, extra separator, 17c: firsts, 16c: dairy, fancy, 15c: fair 18c: store packed, fresh, 10, 12c: off grade, 8c; country roll, fancy, 12½c; choice, 11c.

Eggs-Strictly fresh candled stock, 10%c per

Poultry-Hens, 61/20: springs, 71/4@80: roosters 15c: young, 1716; turkeys, hens, 94@10c: gobblers, 9c; ducks, 84c: geese, fat, 54764c; pigeons, 90c7 \$1.00 per doz.

Fruits—Apples, fancy, \$200@2:0 per bbl.; choice, \$1.00, 2.00; common to good, \$1.00, 1.50

JOHN PETRZILEK, practical furrier and manufacturer of fine fure, sealskin garments, capes and trimmings, 326 Kansas avenue, Topeka, Kas. Mats, rugs and buggy robes always on hand. Ask for special price list. Our current prices

3	are as follows:-	price	mar.	Our currer	To biroos
9	Mink				35@1 00
	8kunk				25@ 85
	Raccoon				300 60
	Muskrat				3@ 8
	Civet cat				5@ 10
	Opossum				5@ 12
	Prairie wolf				50@ 75
	Otter			4	00@8 00
	Beaver			8	00@3 50
			_		

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A. T. MUSTION, CATTLE
4.P. MOMURRAY, SALESMEN.
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J. W. T. GRAY, OFFICE.

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Stockers and feeders bought on order. Reasonable advances made to responsible parties. Market reports and special information free.

THE STRAY LIST.

FOR WEEK ENDING FEB'Y 6, 1896.

Riley county-James R. Young, clerk. HEIFER—Taken up by Fred Meyer, in Zeandale tp. (P. O. Zeandale), December 30, 1895, one black and white yearling heifer, no marks or brands; val-ued at \$12.

Shawnee county - Chas. T. McCabe, clerk. MULE—Taken up by Aaron Caberly, in Mon-mouth tp., one black horse mule, 7 years old; val-ued at \$30.

FOR WEEK ENDING FEB. 13, 1896.

Cherokee county-T.W. Thomason, clerk. TWO MULE COLITS—Taken up by J. E. Lowe, in spring Valley tp., two dark brown male mule colts, i year old; valued at \$20.

TWO MARE COLITS—By same, two dark bay mare colts, 1 year old; valued at \$20.

FOR WEEK ENDING FEB. 20, 1896.

Lyon county-M. Q. Starr, clerk. STEER—Taken up by M. M. Mason, in Jackson tp., November 1, 1895, one red steer, 2 years old, de-horned, no marks or brands; valued at \$25.

ITALIAN BEES. Full colonies of pure ITAL proved Langstroth hives, shipped to any point and safe arrival guaranteed. We make the best "L" frame hive out. Have twenty years experience in bee-keeping and manufacturing hives. Write for prices. A. H. Duff & Son, Larned, Has.

Synopsis of the Annual Statement of the Insurance Company of North America, of Philadelphia, Pa.

JANUAR	Y 1, 1890.
Gross assets	9,487,678.58
Total liabilities, except capital Surplus as to policy holders	4,465,657.04 5,(22,016.49
Total cash income in 1895 (net)	6,025,007.75 6,007,828.29
Risks written in 1806 (fire)	2,157,728.44
Founded A. D. 1792. Cash capital Losses paid since organization	\$80,040,020.02

W. M. FORBES, Agent, Topeka, Kansas,

O It has 128 pages. A NEW BOOK is printed on fine book paper, it has hundreds of illustrations - wood

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Bullone, Moore Errenzolo,

The OLD BLUE-BACK SPELLER was erstwhile thumbed by how many who read these words! And the old familiar picture! —e a ch heart recalls a diferent scene, but all remember well how, cribbed cab-



RY-TREES -not leaves only Tested 70 Years When you plant a Stark tree, you can

A TREE IS KNOWN by its fruit. Stark trees bear fruit—thefinest science has ever produced. For instance—Sold (\$3,000) Plum The chiefest among not 10,000 but 20 Hillion; from crossing our hardy fruitful American plums and the beautiful and exquisite plums of Japan. It is four times larger than its parents, and tree wreathed and smothered with gloriously handsome golden globes—nothing on earth as beautiful or good." No marvel, then, that such a jewel of purest ray serene is worth a small fortune; nor that we were glad to pay full \$3,000.00 for a single tree! A rare ornament, needs but small space—6 feet square. Bears in two years. Controlled by us under patented trade-mark. Salesmen and club-makers wanted—cash pay weekly. Millions of trees! Write us—Louisiana, Mo., Rockport, Ill.

The Poultry Hard

Ducklings and Chicks.

By way of comparison, says the Poultry Keeper, we fed a few ducklings and chicks, all hatched at one time, weighing the best duckling and the best chick, with the following results:

At one week old the duckling weighed 4 ounces, while the chick only reached 2 ounces.

At two weeks old the duckling reached 9 ounces and the chick got up to 4 ounces.

At three weeks, duckling, 1 pound; chick, 61 ounces.

At four weeks, duckling, 1 pound and 9 ounces; chick, 10 ounces. At five weeks, duckling, 2 pounds

and 2 ounces; chick, 14 ounces. At six weeks old, duckling, 2 pounds

and 11 ounces; chick, 1 pound and 21 ounces.

At seven weeks old, duckling, 31 pounds; chick I pound and 7½ ounces. At eight weeks old, duckling, 4 pounds; chick, 1 pound and 12 ounces.

At nine weeks old, duckling, 4 pounds

and 8 ounces; chick, 2 pounds. It will be noticed that the duckling "ran away" from the chick in growth, although the chick weighed heavily for a chick, which was a Light Brahma, the duckling being a Pekin. At the same time the duckling ate nearly two and a half times as much as the chick. One duckling, specially fed, when seven weeks old gained fif-

Egg-Eating Hens.

teen ounces in one week.

EDITOR KANSAS FARMER:-Will you allow me to give J. B. Frost our experience with hens eating their eggs? We have had hens form this habit twice. The first time was in the winter. They laid in the horse manger, and on cold days, when the ground was covered with snow, they usually congregated in the manger, and with their scratching around in a nest containing five or six eggs some were soon broken. Of course chickens will always eat a broken egg, shell and all, so they soon learned to break them. In this case all that was necessary was to break up the habit of laying in the mangers and to induce them to lay in nests provided for the purpose, when the habit died

The second time we had another set of hens, and it occurred in the late spring. As they were laying quite well, and as the chickens (not the laying hens alone) regarded eggs as a model article of diet, we experienced much trouble in breaking up the habit. We first removed what we thought to be the cause. When eggs were used in the house the shells would be cracked, pulled partly open to allow the egg to slip out, and then thrown out in the yard, and the hens would race to see which could get the largest share. Then some day when Chanticleer espied a pile of egg shells (with the eggs in them) lying in the weeds, he issued a general invitation to his family and friends. Then followed the customary race. The first hen to arrive gave a savage peck and ran off with a piece of shell, and so the habit was formed. My wife took to crushing all the shells into pieces before throwing them out, but the chickens were still as fond of eggs as ever and regarded every egg they found about the stable, hay stacks, in the weeds or dsewhere, as legitimate an article of hen food as an ear of corn. Next we broke up all the outdoor nests and fixed some nests up high in the chicken house and provided them with several nest-eggs each. The hens took to laying in these nests, and so we enjoyed a comparative immunity from all but a few of the laying hens, as the rest of the chickens only went to the chicken house to roost, and so they never saw the eggs. In the end we stopped the habit in those few hens by placing the

nests in slightly darkened places. I think that in both cases the trouble was aggravated by a lack of food, not animal food, but simply a lack of food.

I believe that in theory it is caused by a lack of animal food. In the poultry papers and poultry assemblies it is lack of animal food, but in actual practice

I think that in both cases the trouble was aggravated by a lack of food.

I believe that in theory it is caused by a lack of animal food. In the poultry papers also over prices of fowls and eggs. If interested in poultry his book is what you want. Sent post paid for its cents, of animal food, but in actual practice

The J. W. Miller Co. Box 162 Freeport, Ills.) I think that in both cases the trouble

it is usually otherwise. It must be remembered that the average hornyhanded son of toil does not make daily trips to the butcher shop to provide fresh meat for his fowls, and yet they seldom make up this deficiency of animal food by eating their own eggs. In fact, I think that a careful comparison by a physiologist of a hen's canines with those of other carnivorous animals might suggest to him the fact that she is equal to her task in life, even on a straight vegetable diet, provided there is enough of it. If he cannot learn this much from a study of hen's teeth, he may from a study of the

hen as she is, as she lives and lays.

During this winter the diet of the farmer's hen has been grain, grass and such stuff as she could forage. Her animal food has been limited to a taste of entrails at the annual killing time and such eggs as she has feloniously appropriated. Yet eggs are selling here to day for 9 cents. Deprive one man of water and he dies. Deprive another man of water and he dies, and another and he dies, and so on, and so it is clearly proven to deprive a man of water will produce death. Now deprive one hen of her animal food and she takes to eating her eggs. Deprive another, or even a thousand, of animal food, yet they are not driven to eggeating. Yet this clearly proves that a lack of animal food produces egg-eating? No, it is only a habit, and anything that will cause a temporary cessation of the practice will break the habit. A. T. ELLISON.

Piqua, Kas.

A man in Kansas has devised the following plan for protecting new-born pigs in zero weather: Saw a kerosene barrel through the middle and set one half near the farrowing pen-a dry goods box will answer the same purpose. Cover with a piece of old carpet and place a jug filled with hot water in the center. Slip a gunny sack over the jug, and as fast as the pigs come place them in the barrel. Leave them there until they are thoroughly dry. They will keep close to the jug and usually remain very quiet until they are hungry. Then let them out all at once, giving each an equal chance.

New so-called remedies spring up every day like mushrooms; but the people still cling to Dr. Bull's Cough Syrup.



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gs turned without opening the machine. Send sircular of the best INCUBATOR, also book lans to make the same. Price of book \$1. JACOB YOST, Arkansas City, Kas.





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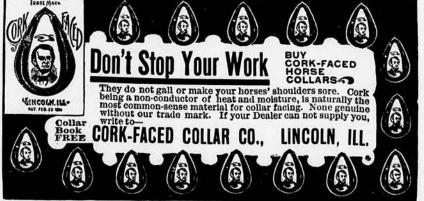






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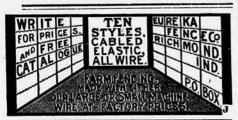
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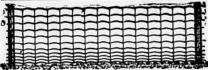


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922,167 392,262 218,805	2,170,827 1,376 273,999	864,713 567,015 111,445 69,784	4.	103,368
	1,689,652 922,167 392,262 218,805	Calves. Hogs. 1,689,652 2,457,697 922,167 392,262 1,376 218,805 273,999	Calves. Hogs. Sheep. 1,689,652 2,457,697 864,713 922,167 2,170,827 567,015 111,445 218,605 273,999 69,784	calves. Hogs. Sneep. mules. 1,689,652 2,457,697 864,713 52,607 922,167 2,170,827 567,015 111,445

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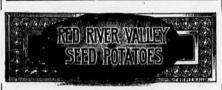
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An enormous yielder, a great keeper and a splen-did table potato. Endorsed by all who have tried it. KANSAS FARMER one year and one bushel. \$1.75 Rural New Yorker "" 1.85 Practical Farmer (Ohlo) "" "1.85 Practical Farmer (Pa.) "" "1.75 Journal of Agriculture (Mo.) "" "1.85



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Null's King 13517 and the 1,000-pound Commonwealth 15701 head my thirty Poland-China brood sows.

The 1,000-pound Miss Lord Corwin 28498 and others equally good. Grand young males and sow pigs.

Prise-winning R. P. Rock, Lt. Brahma and Cornish Indian Game birds, Chester White pigs and butter-bred Holstein Bull calves. Everything first-class. Prices to suit the times. GEO. W. NULL, Odessa, M?.

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The brood sows in my herd belong to the leading families, such as Chief Tecumseh 2d 9115, Orient Sill, Good Quality 4700, Iowa's Champion 2d 6279, Longfellow 29785 O., J. H. Sanders Jr. 18514 S. Hent boars used during 1895, Wren's Medium 12387 S. and Corwin White Face 9924 S. Sows and gilts for sale bred to Hadley Yet, a son of Hadley Jr. 18314 S., the great prize-winner, whose picture appeared in the Breeder's Gazette's last Christmas number. Write and describe what you want, or better, come and select what you wish out of the best bred and finished lot ever raised on the farm. For sale, a No. 1 jack, fifteen and one-half hands high. Warranted a breeder. W. H. WREN, Marion, Marion Co., Kas.

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The 253 Registered animals consist of six Herd Bulls, sixty-five Young Bulls, 132 Breeding Cows and fifty Heifers. These animals combine the following strains of blood: Anxiety, Lord Wilton, The Grove 3d and Cherry Boy. A large number of the females are by the noted Beau Real 11055 and his sons Stone Mason 29071 and Nimrod 29072. For full and complete details of the breeding of the Pedigreed animals send for a free copy of the sale catalogue.

SOO-THE GRADE HEREFORDS--800 These offerings will consist of 125 Cows, sixty-five two-year-old Heifers, sixty-five yearling Heifers and forty-five yearling Bulls. All three-quarters blood and up. These will be sold in car lots or bunches to suit purchaser. Send for copy of free catalogue now ready.

TERMS:—Cash. Sale to commence at 9 o'clock a.m. each day and continue until all stock is sold. Usual sale day lunch at noon. Bids by mail or telegraph will be fairly treated by either.

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OF SEVENTY-FIVE HEAD OF

TOPEKA, KAS., FRIDAY, FEBRUARY 21, 1896.

In making this announcement, I will say to the public that I have too much work, and propose to dispense with it by selling off seventy-five head of thoroughbred hogs—about forty sows in farrow and thirty-five boars ready for service. As good hogs as there are in the world. My best boars and sows are in this offering, some of them 600 pounds and over. Come, everybody, and buy at your own price.

Free lunch at 11:30 clock. Sale begins at 12:80.
Here is a grand chance for a start of the best blood in the world. One more cholera year over with and the past proves that we will have no more under four or five years. I pride myself that I have as good hogs as any man. All purchasers will be required to give approved security. All bids sent to Col. Jas. W. Sparks, Marshall, Mo., will be treated fairly.

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Emporia, Kansas, Tuesday, March 17, 1896.

When we will offer our entire herd, consisting of the breeding boars Hadley Jr. 83607 O., 13314 S.; Sir Charles Corwin 33095 O.; Clay D. 25877 A., the State fair sweepstakes boar; J. H. Sanders Jr. 85698 O.; Longfellow 29785 O.; that has the best World's Fair record of any boar west of the Misissippi river; L's sensation 13316 S.; Harry Faultiess, Vol. 10 S., and Victor E. Jr., Vol. 10 S. Among the brood sows belonging to the following families—Corwin, Tecumseh, Black U. S., and Wilkes, are the females belonging to our 1895 show herds, viz.: Yearling herd—Faultiess Queen Corwin (29798), Queen Wilkes 24 82496 O., Actress Corwin (29809), Miss Short Stop (39844). Six and urder twelve herd—Lady Longfellow (34099), Ideal Lady U. S. (32702), Tecumseh Mortzage Lifter (32849), Black Daisy 4th—. Under six months herd—Samboline (34101), Sweetheart (34183) and Esmerelda (34181). Our sows were sired by such noted boars as J. H. Sanders 27219 O., Ideal Black U. S. 25555 O., King Tecumseh 24 1495 A., Michigan 32537 O., Longfellow 29755 O., Royal Short Stop 10887 S., he by Dorsey's Short Stop 6988 S., Corwin King 10329 S., he by Corwin U. S. 7116 S., Black Prince 10118 S., he by Hill's Perfection 3701 s. and Joe Coler 22 29559 O., he by Joe Coler 21799 O., and others, for which see our free catalogue, as well as for breeding of other brood sows and glits bred.

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TERMS:—All sums under \$20, cash; a credit of eight months will be given on sums of \$20 and over with interest at 8 per cent. from date. Parties from a distance please bring bank reference to obtain this credit. Send for a copy of free catalogue.

Usual sale lunch at 12 o'clock noon. Sale to commence promptly at 10 o'clock a. m or C. S. CROSS, Emporia, Kas. For catalogues write H. L. LEIBFRIED, Manager.

CLARENCE J. NORTON, Morantown, Kas. Gardner, Johnson Co., Kansas, Saturday, February 22, 1896.

THE PINE TREE STOCK FARM CLOSING-OUT SALE.

Ten Thoroughbred Short-horn Cattle, Percheron and Coach Horses, Fine Poultry and Farming Implements.

The offering at this sale comprises ten head of extra fine Short-horn cattle, choicely bred.
One imported black Percheron stallion, Ageselas (15186) 11895.
One German Coach stallion, Young Mustapha II.
Seven aged mares bred to the Percheron stallion.
Six four-year-old mares out of Percheron stallion.
Six four-year-old mares and geldings out of Percheron horses.
Eight three-year-old mares and geldings out of Percheron horses.
Six two-year-old mares and geldings out of Percheron horses.
Three one-year-old colts out of German Coach horse. All these colts are black, smooth and very toppy and will match up well.
In addition to Farm implements, will also close out my pure-bred Poultry, consisting of two dozen Plymouth Rock pullets, two dozen Single-comb Brown Leghorns and three dozen Silver-Laced Wyandottes.

PRIVATE SALE.

My Percheron and German Coach stallions. Also, Pine Tree Stock Farm, a highly improved farm of 834 sores, one-half mile south of Gardner. The farm is all seeded down to tame grass and has water in every field and lot. The farm can be divided into two farms, which will be sold or rented to some one needing a breeding or dairy farm. **EFF for further particulars regarding my sale, address

J. O. McDANIELD, Gardner, Kansas.