

TOPEKA, KANSAS, THURSDAY, OCTOBER 2, 1902.

ESTABLISHED IN 1868 \$1.00 A YEAR

KANSAS FARMER.

Established in 1863.

Published every Thursday by the KANSAS FARMER CO., - - TOPEKA, KANSAS

SUBSCRIPTION PRICE: \$1.00 A YEAR

		TAllow
E. B.	COWGILL	Editor
I. D.	GRAHAMAssocia	e Editor
H. A.	HEATHAdvertising	Manager

Entered at the Topeka, Kansas, postoffice as



ADVERTISING RATES.

Display advertising, is cents per line, agate (fourteen lines to the inch). Continuous orders, run of the paper, si.54 per inch per week.

Special reading noticels, 25 cents per line.

Business cards or miscellandous advertisements will-be received from reliable advertisers at the rate of \$5.00 per state line for one year.

Annual cards in the Breaders Directory, consisting of four lines or less, for \$16.00 per year, including a copy of the Kansas Farmer free. Special rates for displayed live stock advertising.

Special Want Column advertisements, 10 cents per line of seven words per week. Cash with the order. 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.

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. 116 West Sixth Ave., Topeka, Kans.

W. H. Olin has been elected assistant agronomist at the Iowa Agricultural College and Experiment Station. Agronomy is the science of crop produc-Lon and not merely of corn-production, as a typographical error made the Kansas Farmer say recently. Many have regretted that Mr. Olin was not given an opportunity to use his great energy at the Kansas State Agricultural College. He will do good work at the Iowa College.

The KANSAS FARMER, Secretary Coseverely criticised in a recent news- withdrew them. paper article by Mr. C. C. Smith, of Manhattan, on account of their action in insisting that agriculture at the Kansas State Agricultural College should be given more prominence and for their criticisms of the obstructions cast by the president of the college in the way of the larger purposes. the realization of the larger purposes for which agricultural colleges were established as this trio understands them. The Kansas Farmer is not surprised that the son of a Manhattan lawyer who has devoted his energies since graduation almost exclusively to the newspaper business should feel that agriculture is given all the prominence it ought to have. Really the reporter on a city daily or the editor of a paper in a county seat town has not very much

was a student. The case is somewhat different with the young man who is preparing to make farming his life work.

Mr. Ten Eyck has been an assistant and wants all the help that the ideal agricultural college and experiment station can give him. Mr. Smith's preparation for a general newspaper career could have been very easily obtained at the State University. But the agricul-tural college should have another kind of development as its leading purpose.

SOW WHEAT.

The present season should witness the planting of the largest acreage of wheat ever sown in Kansas. The abundant rains of August and September, have provided the necessary moisture to assure a good fall growth in almost every county in the State. Seed is plentiful, and though not so abundant as last year, the advanced price should be taken as a reason for liberal sow-ing rather than as a barrier thereto. Recent prices are doubtless due in part to market manipulation, but the fact remains that the world must be fed, and that the 1902 crop presents no considerable surplus above the world's requirements, suggesting fair prices throughout the crop year and at least at the beginning of the 1903 season.

Forage furnished by the wheat crop has less importance this season than it had a year ago, but good wheat pasture is of no small value to stock cattle, is not to be lightly esteemed by full-feeders, and is a prime feed for dairy cows, when the added advantage that all ani-

mals can help themselves to it. The farmer who plants wheat has double assurance of a paying crop from his land. Wheat is a reasonably sure crop, at least as sure in the wheat-belt as is corn. But should the season prove unfavorable, and the wheat winter kill, its place may be taken by a spring crop, with chances that the wheat will have repaid its cost in the way of pasture. Advice to sow wheat is safe for most of Kansas.

THE AGRICULTURAL COLLEGE SE-CURES A PROFESSOR OF AG-RICULTURE.

The regents of the Kansas State Agricultural College held their September meeting at the college last week and rearranged the work of the farm department. It will be remembered that the chair of agriculture vacated by Professor Cottrell was offered successively to three men who had made recburn, and the Kansas City Star (a fair- oros in this kind of work. Three othly reputable trio) have been somewhat ers who had submitted testimonials

> A majority of the regents' farm committee, namely Regents Coburn and Stewart, agreed to recommend D. H. Otis for professor of agriculture at a salary of \$2,000, E. H. Webster for professor of dairying at a salary of \$1,500, and that an assistant professor of agriculture be employed on the recom-mendation of the professor of agricul-ture at a salary of \$1,200; the professor of agriculture to have general oversight of the department.

> The action taken by the regents, however, was to make D. H. Otis professor of animal husbandry at a salary of \$1,650 and the use of the farm house; A. M. Ten Eyck professor of agriculture at a salary of \$2,100, and E. H. Webster professor of dairying at a salary of \$1,350.

> When the matter of a professor of

in the North Dakota College and is well in the North Dakota College and is well recommended. It is hoped that he will measure fully up to the requirements of the important work placed in his charge at Manhattan. The fact mat Professor Otis, whose abilities are well known throughout Kansas, was recommended for the place by Regents Commended for the place by Regents Comm mended for the place by Regents Co-burn and Stewart, the only members of the board who have any direct connec-tion with agriculture, will cause many to regret that the board preferred an assistant whose qualifications are less certainly known.

It is reported that Regents Coburn and Stewart were bissed by some bood-

and Stewart were hissed by some hood-lums among the students as they passed to the chapel platform. It is not to be believed that any of the well-bred farmers' boys who are seeking educa-tion at the Agricultural College would offer such indignity to representatives of the State who were there discharg-ing their official duties. Doubtless the indignity was offered by other than farmer boys, some of those who think that "ag-riculture does not cut much of a swath in the co-called agricultural col-leges." The most surprising feature of the case is that while the hissing oc-curred on two successive mornings it called forth no word of disapprobation from the president.

GREAT CONTEST FOR MONEY.

A battle royal seems to be in prog-ress in the financial world just now. There is no politics in it so far as reported, but since these contests some-times seriously affect all industries and all interests, to the remotest corners of the country, it will be well to give some attention to the present one.

It was reported a few days ago, that, on returning from Europe, recently, with sundry giant schemes for the consolidation of industrial and transpor-tation enterprises well developed, J. Pierpont Morgan found, to his disgust, that certain presumptious persons, namely, the Moore Brothers, had por-rowed most of the available loan money in New York, and were proceeding energetically with some great railroad consolidations. Whether Morgan was so wroth at this proceeding, as reports have stated, may not be known, but it is currently believed, that he has been greatly disappointed to find that the banks on which he had been accus tomed to rely for money, had loaned almost to the limit allowed by law.

This situation was made rather worse for Mr. Morgan, by the unusual-

ly heavy demand for money to buy Western and Southern crops, thus carrying ordinarily available funds away from the usual channels in New York.

It may be only a coincidence that money to be returned on demand—or on call—commanded 30 per cent inter-est in New York last Tuesday; but there are those who will surmise that the urgency of the Morgan demands for money is such that those interested in them have run up the price of loans. f this be true, it signifies a fierce contest for the use of the surplus money of the people of the United States.

The financial system of this country is not perfect, as is evidenced by the demands from all sides to amend it. But the effort of the Secretary of the Treasury to avert a panic, on account of the present contest for money, by increasing the Government's deposits with the use in his business for even the amount of agricultural instruction that was given at the college when Charley Smith agriculture be stricken out and agroning in hundreds of millions. Thirty per will be both safe and profitable.

Table of Contents

money throughout the country would mean panic, with widespread hardship and ruin. It is greatly to be hoped that the secretary will be able to break the corner on money.

COTTONSEED FOR CATTLE AND HOGS.

EDITOR KANSAS FARMER: -Will cottonseed injure hogs, if fed to cattle for a period of forty days? i. e., both are in a dry lot and hogs are cleaning up after cattle. If cottonseed will, how about the meal if it is fed?

E. E. VOIGTS.

Merriam, Johnson County. Cottonseed in any form should be fed with care. It is very rich in protein and is therefore valuable for balancing a ration of corn, corn-fodder, and hay. Indeed the deficiency of protein is the most serious lack of most common fills excepting alfalfa and clover. But cottenseed has in some cases proven fatal when fed in large quantities for a long time or when fed in considerable quantities to animals unaccustomed to it. Fed in suitable quantities with corn or other carbonaceous feed, either cottonseed or cottonseed meal ought to be safe and profitable both for the cattle and for the hogs following them. A period of forty days should be a safe one during which to use cottonseed for half of the ration, after the animals had be-come accustomed to it by degrees. Some have fed made cottonseed meal much more than half the ration with good results, but when corn sells at usual prices it is probable that more profit will result from the ration in which corn constitutes an important elerient. Whatever is fed good roughage fed to the cattle with the concentrates

HOW TO MARK A BALLOT UNDER THE NEW LAW.

An "off year" in politics is one in which no president is to be elected. As Kansas elections are now arranged, i. e., to occur biennially, half of our elections for state and county officers occur in off years. The off year is not in-frequently the dread of the party manager because the voter often makes it the occasion for disciplining the managers by voting as the voter pleases. The party whip is always opposed to this and urges the voter to "stand by the party," to vote the straight ticket," etc. Contrary to the dictum of the whip, the voter is much given to considering that he is not settling questions of national policy this year except as to his vote for Congressman and, more remotely, for members of the State Legislature, and thereby absolving himself from some of the party obligations which the county bosses would like to have him observe.

It is not the purpose of the Kansas

FARMER to either advocate or condemnathe voter's views on this question. They are alluded to here only to suggest the reason why party managers expect a large number of other than "straight" ballots at the coming election, and are anxious to have voters thoroughly nu-structed in handling the ballot under the complications of the new law. This anxiety is one point on which the everyday, good citizen is in harmony with the

managers. It will be very easy to lose your vote under the new law. On this account the Kansas Farmer thinks it wise at this early date to call attention to the correct methods of voting. To vote a straight ticket make a cross in the cir-cle and make no other mark on the ticket. It will not invalidate the ticket if you mark also a cross in EVERY one of the squares opposite the names on the ticket you want to vote, but if you mark the circle and a part of the squares on your party ticket leaving one or more unmarked, your ballot will be thrown out. Or, you may vote the straight ticket by leaving the circle blank and making a cross in the square opposite each name on your party's ticket.

If you d not wish to vote for every name on either ticket, leave all circles blank and make crosses in the squares opposite the names of every candidate for whom you desire to vote, on what ever ticket you find them, but be such to avoid voting for two candidates for the same office

If the predictions of the politicians come true, a very large proportion of the votes counted one month hence will be marked according to the last of the above directions.

INDIAN RELICS IN DEMAND.

The curator of the department of archæology at Phillips Academy, Andover, Mass., writes the editor of the Kansas Farmer asking assistance in encouraging the preservation of stone, bone, and clay prehistoric forms. He

says:
"In your section of the country are frequently found various 'Indian relics.' These have a direct bearing on

Please Tell

Who Needs My Book.

I ask you for the name of a friend who needs help-that is all.

Just send me a postal to tell me the book he needs. No money is wanted.

Do that much and I will do this: I will send him the book, and with it an order on his druggist for six bortles Dr. Shoop's Restorative. I will authorize that druggist to let the sick one test it for a month at my risk. If it succeeds, the cost is \$5.50. If it fails, I will pay the druggist myself.

There was never a sick one who could refuse such an offer—and I am very glad to fulfill it. My records show that 39 out of each 40 pay for the medicine gladly. I pay just as willingly when one

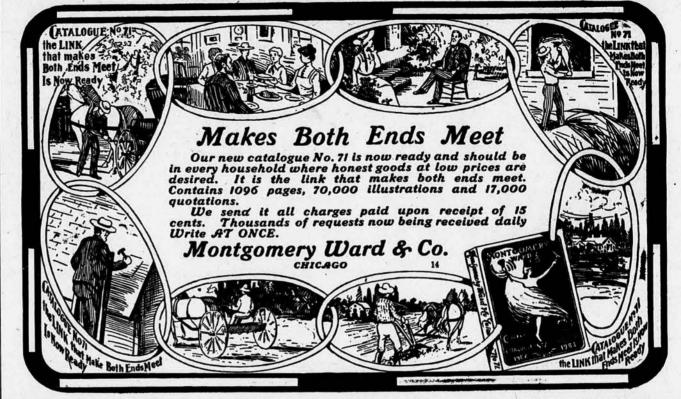
says that I have failed. The reason is this: After a lifetime's experience I have perfected the only remedy that strengthens the inside Those nerves alone operate nerves. Those nerves alone operate every vital organ; and no weak organ can be well again until its nerve power is restored. I want those who need help to know it.

For his sake, please tell me some sick one whom common remedies don't cure.

* Simply state which book you want, and address Dr. Shoop, Box 529 Racine, Wis.

Book No. 1 on Dyspepsia. Book No. 2 on the Heart. Book No. 3 on the Kidneys. Book No. 4 for Women, Book No. 5 for Men (sealed) Book No. 5 on Rheumatism

Mild cases, not obronic, are often cured by one or two bottles. At all druggists.



the history—or rather pre-history—of America, and as such should be preserved in fireproof buildings for the study and edification of present and future generations.

"I am persuaded that there may be persons who have found some remains of the ancient Indian tribes, 'Mound builders,' etc., and that, possibly, they would be willing to send them to us. We shall be glad to pay express charges on any and all boxes of specimens sent to us, to mention the gifts in our report and to give the donors due

credit in our exhibition cases.

"All these axes, pipes, spear heads, clay vessels, and 'strange stones,' should be carefully preserved somewhere, where they may be of service to the public and to science. Archæology —technically followed—is a new science in the United States and it is more important than the average reader imagines, for these 'stone relics' have a direct bearing on the antiquity of man. I shall be glad to correspond with persons who have 'relics' in their possession."

Water and Crops.

The third annual report of the irrigation investigations of the office of experiment stations, United States Department of Agriculture, made under the direction of Elwood Mead, says that averages of measurements, embracing nearly all of the arid states, show that during the past three years enough water was turned into the heads of ditches during the irrigation season to cover the land irrigated, to a depth of 4 45-100 feet; or stated in another way, 4 45-100 acre feet of water were taken from streams for every acre of land ir-

A large part of this water supply was lost in transit through seepage, the leakage being especially great where canals run through sandy or gravelly soil. Measurements at the heads of laterals, showed an average loss in the main canal of 11 per cent. Measurements made at the margin of fields, on six large canal systems, showed that only 42 per cent. of the water turned in at the head gates was delivered to farmers. This large loss through seepage is one of the significant features of those measurements, and shows that better construction of distributing works, is one of the directions in which great improvement is possible.

Another interesting table in the report, shows the value of the crops grown, for each acre foot of water used. They vary from \$1.32 an acre foot to \$122 an acre foot, water bringing the least return when used on alfalfa and the largest return when used in irrigating nursery stock. It also was shown that crops which require irrigation in the last half of the irrigation season have a far greater than those which require irrigation during the first half, the average value per acre of crops, which have to be irrigated in the last half of the season, being \$49.39 an acre, while crops which require irrigation only in the first half of the season have an average value of only \$17.83 an acre, a difference of \$31.56 an acre in faver of late crops. These, however, have to be watered, when streams are low and water scarce. As a rule this water supply can be had only through storage, and the cost of reservoirs had to be Hundre charged against the extra value of the statuary.

crops. Experience shows, however, the report says, that the storage of water pays farmers and will increase largely the productive value of irrigated lands.

World's Fair in Brief.

Congress, with the approval of the President of the United States, has provided that the World's Fair at St. Louis, in celebration of the Centennial of the Louisiana Purchase shall be held in 1904.
Formal dedication of grounds and

buildings, occurs April 30, 1903; Exposition to open one year later.

Approximate cost of the Exposition, \$40.000,000. Amount raised by citizens of St.

Louis, \$5,000,000. Proceeds from St. Louis city bonds,

15,000,000. Appropriated by United States Gov-

ernment, \$5,010,000.

Appropriated by the State of Mis-

souri, \$1,000.000.

Appropriated for United States Government building, \$450,000.

Appropriated for United States Gov-

ernment exhibits, \$848,000. Appropriation for the Philippine ex-

hibit, \$250 000. Leading Governments of the world to participate.

All States and Territories of the United States to take part. Exhibits arranged in fifteen great de-

partments. Education and Social Economy building, 400x600 feet.

Palace of Art, 836x422, fire-proof, cost, \$945,000.

Electricity building, 525x750 feet; cost, \$399,940. Textiles building, 525x750 feet; cost,

\$319.399. Liberal Arts building, 525x750 feet; cost, \$460,000. Manufactures building covers four-

teen acres, cost, \$845,000 Varied Industries building, fourteen acres; cost, \$604,000.

Machinery building covers twelve acres; cost, \$600,000. Transportation building covers fifteen

acres: cost, \$700,000. Agricultural building covers twenty acres; cost, \$800,000.

Twenty-five acres devoted to Live Stock Exhibits. Horticultural building, 300x1000 feet;

cost, \$200,000. Forestry and Fisheries building, 400x 600 feet.

Mining and Metallurgy building, 525x 750 feet; cost, \$500,000. Government building, 850x200 feet; to

cost \$450.000. Special buildings for Anthropology and Ethnology.

Building and Athletic grounds for Physical Culture.

Acreage World's Fair site, 1,200; value, \$15,000,000.
Washington University buildings used

by World's Fair; cost, \$1,500,000. Exposition will show processes, as well as products.

Missouri building (permanent); cost, Fraternal Orders building, eighty rooms; cost, \$200,000.

Magnificent landscape effects are

Beautiful fountains, flowers, shrubs and trees.

Hundreds of groups of costly original

Wonderful electrical grounds and huildings.
Over 20,000 horsepower for Exposi-

tion uses. Airships; prizes

Tournament of amount to \$200,000. Intramural Railway to all parts of the grounds.

ST. LOUIS is situated on the west bank of the Mississippi River, near the Missouri. It is midway between New York and San Francisco, the Gulf of Mexico and the Great Lakes. It has 600,000 population, being the fourth city in size in the United States. It has an area of 62½ square miles, and twenty miles of river frontage; contains 8,000 factories, being the fourth-manufacturing city of the world. Twenty-four railroads center here.

Ample accommodations at reasonable rates for millions of visitors in hotels and in the homes of citizens. Address Bureau of Publicity for detailed information.

KANSAS FARMER'S NEW WALL ATLAS.

The Kansas Farmer has arranged with the leading publisher of maps and atlases to prepare especially for us a new Wall Atlas, showing colored reference maps of Kanasas, Oklahoma, Indian Territory, the United States, and the World with the 1900 census.

The size of our new Wall Atlas is 22 by 28 inches. The outside map shows the flags of the United States as well as the flags of all the nations. In addition thereto is given a list of tables, an exhibit of the products and their values of the United States and the World. One of the maps shows all States, Territories and possessions of the greater United States and facts as to their capitals and the first settlements and in relation to their general government, areas, population, and legislature.

The atlas also gives the growth of our country, showing the population of all towns by States, of 3,000 and over for the census years of 1880, 1890, and

This grand new census edition atlas the government, chief executive, area in square miles, population, capital and its population. This excellent educational work should be in every home. It sells for one dollar.

Every one of our old subscribers who will send us two new subscribers at 50 cents each for the remainder of the year, will receive a copy of this splendid new Wall Atlas postage pre-

One Fare for the Round Trip

to Boston and return, via Nickel Plate Road, October 7th to 11th, account meeting of Brotherhood of St. Andrews. By depositing tickets at Boston and paying fee of 50c., extended return limit of November 12th may be obtained. Though vestibuled sleeping-cars and first-class service in every respect. Cheap rates to all New England points. Write John Y. Calahan, 113 Adams St., Chicago, for particulars. (No. 49)

When writing advertisers please mention KANSAS FARMER.

Agricultural Matters.

Agricultural Imports of the United Kingdom.

FROM BULLETIN NO. 26, SECTION OF FOR-EIGN MARKETS, U. S. DEPARTMENT OF AGRICULTURE.

The United Kingdom is the principal market for the surplus agricultural produce of exporting countries. The products of agriculture sent to that market from all sources in 1900 reached the enormous value of \$1,578,000,000, forming 62 per cent. of the entire import trade of Great Britain and Ireland.

The total value of the merchandise imported into the United Kingdom dur-ing each of the five years 1896-1900, and the extent to which that merchandise consisted of agricultural produce, large possibilities in the way will be seen from the following table: tended trade for American butter.

Imports of the United Kingdom classified as agricultural and nonagricultural.

Calendar years.	Total imports. Dollars.
1896	2,194,932,434 2,289,905,792 2,360,425,665
- Committee of the Comm	1000 000 154 441

Annual average, 1896-1900....\$2,308,174,441

SOURCES OF IMPORTATION.

To this extraordinary import trade in agricultural produce the United States was the principal contributor, furnishing about 33 per cent., or nearly onethird, of the supply. About 43 per cent. came from foreign countries other than the United States. The several possessions and dependencies of the United Kingdom throughout the world together contributed about 24 per cent.

UNITED STATES.

The value of the agricultural produce eceived from the United States received from the United States amounted to \$513,000,000, leaving over \$1,000,000,000 worth of such produce to be supplied from other sources.

While the United States already possesses a market of exceeding import-ance in the United Kingdom, selling to that country more than half of the surplus production of American farms, it will be seen from the figures just quoted that the possibilities of future trade extension there, in competition with other exporting countries, are well worth consideration.

Among the agricultural imports into the British market during 1900 there were comparatively few products in which the United States controlled the larger portion of the trade. Taking such items as had a value exceeding \$10,000,000, of which there were thirtyfour in the year under consideration, we find that only nine of them came more extensively from the United States than from the various other sources. These nine items, with the percentage of the total supply received in each case from the United States, were as follows: Lard, 93 per cent.; hams, 89 per cant.; tobacco, 84 per cent.; wheat flour, 83 per per cent.; fresh beef, 74 per cent.; raw cotton, 74 per cent.; cattle, 72 per cent.; indian corn, 70 per cent.; and

bacon, 64 per cent.

It will be noticed that, with the exception of cotton, Indian corn, and tobacco, the products enumerated are all now supply the British market. articles of food. They occupy a most 1900 the people of the United I important place with reference to the spent over \$10,000,000 in the important place. bread and meat supply of the British people. While other countries are the chief contributors as regards the various food articles that may be properly designated as luxuries, and especially such articles as can in cases of emergency be readily dispensed with, the United States is the source from which tne British people procure in large measure those staple food products that are absolutely necessary to the maintenance of life. It is this staple character of the foods in question that causes the peculiar dependence of the Injied Kingdom on American sources. United Kingdom on American sources

The above-mentioned articles that are so largely furnished by the United States comprised in 1900 nearly three-fourths of all the farm produce imported from that source. The residue of the British agricultural imports for 1900 in cluded several products that were re-ceived quite extensively from the United but in amounts forming less than 50 per cent. of the total, as follows: Wheat, 48 per cent.; oil cake, 46 per cent.; oats, 28 per cent.; barley, 26 per cent.; cheese, 25 per cent.; and tallow, 25 per cent.

Although at present the principal part of the trade in each of these articles goes to competing countries, there is unquestionably abundant opportunity, in the face of this competition, to extend the sale of American products.

United Kingdom during the year in question embraced nineteen different ad-ditional articles with values exceeding \$10,000,000. In the case of these latter articles, the United States supplied only a small portion of the total importa-

Some of the products in which the American export trade is now comparatively small, as, for instance, butter, eggs, wines, oleomargarin, potatoes, and oranges, seem capable under favorable conditions of being produced in the United States in sufficient quantities to

warrant much larger exportations.

Less than 2 per cent. of the butter imported into the British market during 1000 market furnished. imported into the British market dur-ing 1900 was furnished by the United States. For the imports received from other sources the United Kingdom paid over \$83,000,000. These figures suggest large possibilities in the way of ex-

—Agricultural—		_Nonagricultural_	
Dollars, Per ct.		Dollars. Per ct.	
\$1,378,933,618	64.13	\$771,129,413	35.87
1,393,546,461	63.49	801,585,973	36.51
1,474,681,428	64.40	815,224,364	35.60
1,469,924,839	62.27	890,560,826	37.73
1,577,522,533	61.97	968,022,748	38.03
\$1,458,921,776	63.21	\$849,252,665	36.79

The British market apparently offers the United States abundant opportunity to establish a valuable export business in eggs. The eggs imported by the United Kingdom in 1900 cost over \$26,000,000. Only about 3 per cent. of this sum went into the pockets of American exporters.

During 1900 the considerable sum of \$25,000,000 was spent by the British people for imported wines. Less than 1 per cent of these wines came from the United States. With the rapid growth of the California wine industry tne outlook for a larger export trade in that product becomes brighter.

About \$12,000,000 worth of oleomar-About \$12,000,000 worth of oleomargarin was imported during 1900 to supply the needs of the British people. While at present the amount of oleomargarin manufactured in the United States exceeds only slightly the domestic requirements, this article could unquestionably be produced for exportation. Of the British imports for 1900 the united States suplied less than 1 the united States suplied less than 1 per cent.

During the year under consideration the United Kingdom spent nearly \$11,000,000 for imported potatoes. Practically the entire trade went to countries other than the United States. The British market would seem to afford a promising field for the sale of American potatoes. This apparent opportunity to develop a larger export trade in pota-toes suggests also the possibility of creating a foreign demand for that important American product, the yam, or sweet potato.

Oranges form another item among the British agricultural imports that could be more largely supplied from American sources. The remarkable develop-ment of orange culture in the United States, especially on the Pacific coast, and the recently improved facilities for transportation across the continent, will doubtless result in bringing the American fruit into more active competition with the product of other countries that 1900 the people of the United Kingdom spent over \$10,000,000 in the importation of oranges. Less than 1 per cent. of the shipments received came from the

United States. Aside from the products just men-tioned, which have been selected as offering some of the most promising opportunities for development in the trade between the United States and the United Kingdom, there are numerous other agricultural products that suggest consisting of products that can not be transported great distances except under refrigeration. The more general introduction of refrigeration facilities on land and sea has greatly increased the opportunities for trade extension in such products, making it possible to forward them in good condition to the seaboard and transport them undamaged across the Atlantic to the British market in competition with similar products that are sent to that market by the less distant countries of Europe. It is in these perishable products, the exportation of which is made possible by modern transportation methods, that the great future development of American trade in the British market may be expected.

FOREIGN COUNTRIES.

Aside from the various leading items to which reference has already been that compete with the United States in made, the agricultural imports into the supplying farm produce to the United

Up a Stump 10 MILES TO A DOCTOR Watkins'Liniment all Gone Enough to discourage anyone. Ill health, big doctor bills, no pleasure in life; blue and discouraged. What's the matter? Simply this. You can't work well, play well or sleep well until your body is in good healthy condition, and you can't keep the body in good healthy condition if you allow disease to once get a foot-hold. It is for this reason that a bottle of that a bottle of Watkins' Vegetable Anodyne Liniment is so valuable in the house. It is ready when the first sign of cold or chill is felt. A few drops then does what a doctor would charge many dollars to do later. We receive numberless letters like the following: MANAWA, Wis., July 5, 1901.

I have used Watkins' Vegetable Anodyne Liniment for colds and cramps with very best results,"
H. F. ORA. The Best Remedy made for Colds Coughs, Colic, Diarrhoes, Cholera Morbus, Dysentery, Indigestion, Cuts, Burns, Bruises, etc. An especially strong point about Watkins' Liniment from the farmers' view-point, is that it is equally good for Our agent will furnish you with any of Watkins' Remedies, or if we have no agent in your neighborhood, write to us, and we will see that you are supplied. ' GIFT FOR 1903. We offer a beautiful Cook Book and will send us his name and address on a postal card. Filled with useful information on everything pertaining to the home. Write to-day. It is free. THE J. R. WATKINS MEDICAL CO., 28 Liberty St., WINONA, MINN., U. S. A.

Kingdom is the great neighboring republic of France, from which in 1900 agricultural imports were received to the value of \$103,000,000, comprising 6.5 per cent of the total. Large as are the purchases made from France, however, they amount to less than a quarter of what is bought from the United States.

Sugar and wines are the leading articles of importation from France. That country also furnishes large quantities That of butter and eggs, as well as fruits and vegetables in abundance. French bran-dies are imported quite extensively, forming another item of considerable value. Wool is also one of the leading imports from France.

GERMANY.

Next to France, the largest competitor of the United States in the British market is Germany, from which country in 1900 there was imported \$79,000,000 worth of agricultural produce, or 5 per cent. on the total. Sugar, which is the principal factor in the German trade, constituted more than half of these imports. Aside from sugar, the agricultural products purchased most extensively from Germany are eggs, wheat, oats, and oil cake. The wheat and oats, if not also the eggs and oil cake, are doubtless in large part re-exports of produce received originally from other countries, and particularly from Russia.

NETHERLANDS.

The Netherlands supplied 4.4 per cent. of the agricultural produce imported into the United Kingdom during 1900, the value amounting to \$69,000,000.
Oleomargarin, or imitation butter,
formed the largest item, and sugar the mentioned butter, cheese, and milk, and also fresh pork and fresh mutton.

ARGENTINA.

Agricultural imports worth \$63,000,-000, or 4 per cent. of the total, were received in 1900 from Argentina. is the product imported most extensively from that source. Another grain that the United Kingdom receives in large quantities from Argentina is In-dian corn, or maize. Recently an extensive trade has been developed in fresh mutton, and also a considerable trade in fresh beef. Argentine cattle and sheep are imported quite largely, and to some extent their products—tallow and wool. Flaxseed is another item of considerable importance among the agricultural imports received from Argentina.

RUSSIA.

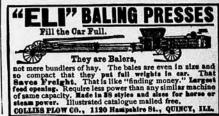
During 1900 Russia kept equal pace with Argentina as a contributor to the agricultural import trade of the United

Kingdom, furnishing products \$63,000,000, or 4 per cent. of the total. Grains occupy an important place among the products received from Russia. In the year mentioned oats were imported more extensively the look other variety. Wheat, barley, and y dian corn followed in the order names. Flax and flaxseed are also leading imports from Russia, and within the last few years an important trade has been developed in butted and eggs.

From Denmark, which is the leading source of the United Kingdom's butter imports, agricultural produce was received in 1900 to the value of \$62,000, 000, or 3.9 per cent. of the total. After butter, the principal item received from Denmark is bacon, to the production of which Danish agriculturists have recently given much attention. In addition to butter and bacon, the Danes are now beginning to send large quantities of eggs to the British market.

The large amount of cotton supplied by Egypt gives that country a place of some prominence among the sources of the United Kingdom's agricultural imports. In 1900 the agricultural products of all kinds imported from Egypt had an aggragate value of \$60,000,000, form-ing 3.8 per cent. of the total. The longfibered Egyptian cotton, which is used so extensively by the British in the manufacture of certain lines of cotton goods, comprises by far the largest part

Belgium contributed 2.2 per cent. of the agricultural produce imported by the United Kingdom during 1900, the shipments for that year having a value of \$34,000,000. Sugar, flax, and eggs are the articles received in largest quantities from Belgium. Other items of considerable importance in the Belgian trade are potatoes, butter, and wool. It is to be assumed that the wool furnished by Belgium was almost en-tirely the product of other countries,



and probably in chief parts of France and Argentina.

From Spain agricultural imports amounting in value to \$26,000,000, and forming 1.7 per cent. of the total, were received during 1900. Fruits occupy the most important place among the products purchased from that country. The orange is the fruit imported most extensively, but raisins and grapes are nlso received in considerable quantities.

Next to fruits the principal item consists of wines. Other leading imports from Spain are Spanish onions, esparto, olive oil, and almonds.

ASIATIC TURKEY.

Asiatic Turkey sent to the British market in 1900 \$16,000,000 worth of agricultural produce, or 1 per cent. of the total. Barley forms the largest item among the agricultural imports from that country. Other articles of considerations of considerations of considerations. that country. Other articles of considerable importance are raisins, figs, and wool.

BRITISH POSSESSIONS.

Among the British possessions that contribute to the agricultural import trade of the parent country the Australasian colonies now rank formost. In 1900 Australasia furnished about 9 per cent. of all the agricultural produce imported by the United Kingdom, the combined imports from the various Australasian colonies having an aggregate value of \$146,000,000. New Zealand, New South Wales, and Victoria are the leading sources, but Queensland and South Australia also make important contributions. Products of animal industry, and particularly of sheep raising, are conspicuous among the impor-tations from Australasia. Wool forms decidedly the largest item in the trade, while fresh mutton ranks second in importance. Butter is also imported quite extensively from Australasia, and so are tallow and stearin. Beef, fresh and cured, forms another item of consider able importance.

BRITISH EAST INDIES.

Next to Australasia, the British East Indies supply the greatest amount of agricultural produce imported into the United Kingdom from its several colo-nial possessions. In 1900 the value of the shipments received from that source 707 wt to \$126,000,000, forming about

imports received from the British East Indies comes from Bengal. After Bengal, the most important sources are

Ceylon and Bombay. The principal import into the United Kinguom from the British East Indies is tea. Jute ranks next to tea in importance, while flaxseed stands third and rice fourth. Hides and skins also form a considerable item among the articles of importation.

CANADA.

With the exception of Australasia and the British East Indies, Canada out-strips all other British possessions as a contributor to the agricultural import trade of the mother country. During 1900 the agricultural products received from Canada comprised 4.4 per cent. of the total, their value being \$69,000,000. Cheese is the item of leading value

among the articles supplied by Canada. Other animal products furnished quite extensively are bacon and hams, and extensively are bacon and nams, and butter and eggs. Canadian beef cattle are shipped in large numbers to the United Kingdom, forming one of the principal features of the trade. Canada also sends heavy stipments of grain to the Patitals may stipment of grain to the Patitals may stipment of grain to the patitals may stipment of the patitals are supported to the pat the British market, particularly wheat and Indian corn, with oats in smaller quantities. Wheat flour is another important article of shipment, as are also fresh apples.

CAPE OF GOOD HOPE.

ng British dependencies that send agricultural produce to the markets of the United Kingdom, the Cape of Good Hope is the most important. During 1900 about 1 per cent. of the British agricultural imports came from that source, the value amounting to \$14,000,000. The principal products received from the Cape are wool ostrich feathers, and mohair.

Late Cultivation of Corn.

EDITOR KANSAS FARMER: -I notice in the issue of September 18, a question of cultivation, from Frank Hoover, as fol-

lows:
"I am glad you raise the question in your paper regarding the cultivation of corn, after it is laid by, or after it is too high to be worked by the ordinary twohorse cultivator. A good many of us have had to go after this thing, un-aided, and put on our thinking-caps and dig it out as best wo could no matter how crude our plans and work. The farmers need instruction along these lines so as to conserve moisture and

save their corn crop of a dry year, more than they need to know of a new breed of wheat or the number of winnings of a great bull. My own plan in lieu of a better is to cultivate corn as many times as possible both ways, with two-horse eagle-claw cultivator. go into a field with a one-horse five-shovel cultivator that is used by gardeners a good deal. It costs but \$3.5.7, has a lever for making it wider or narrower while working, as the rows may need. I hitch the children's pony to an old mower wheel, put one of them ou him, and they follow this cultivator. It makes the ground very mellow, between the rows, and comes as near the so-much-talked-of dust mulch as I with my crude machinery can get. I would like to see a hundred letters from a hundred different farmers in the Kan-SAS FARMER, regarding after cultiva-

Now, Mr. Editor, the best tool I have found so far for above-named purpose is the Planet Jr. one-horse, twelve-tooth harrow, cultivator and pulverizer, which I purchased from our implement dealer, John Mair, in Nortonville. Following is a description in the catalogue:

"This tool is now made with our improved handle braces, which so stiffen the frame and handles as to make it seem twice as strong as ever, while the handles not only change in height to suit everybody, but also, sidewise. This expander is of the latest improved pattern, the same as on No. 8 horse-hoe, it works with ease, yet holds the tool thoroughly rigid. The strawberry-grower finds this tool invaluable, as .. works so close and so thoroughly deep or shallow as wanted, without throwing earth on the plants. He uses it to keep the ground loose and clean, and to work up and bed the runners; the round throted teeth lift and turn them aside without injury, ready to root in the mellow soil. Farmers and gardeners use the harrow

Farmers and gardeners use the harrow in deep or close cultivation, or when desiring to work the crop thoroughly, but without hilling.

"Depth regulation.—This is done in the most perfect manner by the combination of the lever wheel and the pulverizer, both of which are easily and quickly adjusted. The foot-lever pulverizer makes this a fine tool for preverizer makes this a fine tool for preparing ground for the seed drill or for plant-setting. The hand-levers regulate both width and depth instantly. The tool expands to thirty-two inches, and contracts to twelve."

WILLIAM WORMSER. Nortonville, Jefferson County.

The Development of Water from the Underflow by Pumping.

PRESS BULLETIN NO. 66, AGRICULTURAL EX-PERIMENT STATION.

The experimental work in progress at the Agricultural Experimental Station, Mesilla Park, N. M., was undertaken with the three following points in

First, the development of a water supply from the underflow in sufficient

quantities for irrigation purposes.

Second, a test of the efficiency and economy of different makes of pumps. Third, the determination of the cost of irrigating different crops by pumping, under varying conditions of drought.

So far as the test has been carried out some very interesting data has been obtained. One six-inch well 48 feet deep, with a slotted strainer located in a 12 foot gravel stratum, furnished over 800 gallons of water per minute or some-thing over 6400 cu. ft. per hour, (1.77 cubic feet per second.) At the end of a thirty hour continuous run there was no sign of a diminution of the water. During this run 6 3-10 acres of alfalfa were irrigated in 23 hours and 45 minutes at a cost of about \$1.30 an acre for fuel. This field had been irrigated on June 5 with river water but had received no water from that date until irrigated by pumping on July 30, 55 days later. The ground was very dry and cracked open to quite a depth. Since at this season of the year alfalfa is usually iropen to quite a depth. rigated once in from 14 to 21 days, it is quite probable that twice the quantity was required for this irrigation than would nave been required under normal conditions. Taking this as probably true, the cost of irrigating alfalfa would amount to about 65 cents per acre under normal conditions of dryness and frequency. It is no more than just that I should add that this run was made with



Gennine stamped C C C. Never sold in bulk. Beware of the dealer who tries to sell "something just as good."



inferior fuel, and the cost is likely to be less rather than more. Later tests will demonstrate this point more fully. The following figures are based on a cost of about \$2.25 a cord for wood.

Computations from the data obtained from the tests that have been made will no doubt be of interest, though incomplete, and are given below: Cost of fuel for irrigating alfalfa, cov-

ering the surface of the ground:

Per acre
1 inch deep\$.191/2
2 inches deep
21/6 inches deep
3 inches deep
2 1-3 inches deep
1 inch deep \$ 19½ 2 inches deep 39 2½ inches deep 49 3 inches deep 58½ 2 1-3 inches deep 65 6 inches deep 1.17 6 2-3 inches deep 1.30
6 2-3 inches deep 1.30
02-0 menes deep
Area that could be irrigated in twen-
to four hours covering the surface of
ty-lour hours, covering the surface of
Area that could be irrigated in twen- ty-four hours, covering the surface of the ground:

 1 inch deep
 Acres.

 2 inches deep
 21

 2 1-2 inches deep
 16 4-5

 3 inches deep
 14

 3 1-3 inches deep
 12 3-5

 6 inches deep
 6 3-10
 Size of farm that could be irrigated

by running twenty-four hours each day if an airrigation be given to the successive fields every fourteen days, covering the surface of the ground:

Ac	res
2 inches deep	2420
2 1-2 inches deep	1-2
3 inches deep	
3 1-3 inches deep	2-5
6 inches deep 98	
6 2-3 inches deep 88	1-5

Size of farm that could be irrigated by running ten hours each day if an irrigation be given to the successive fields every fourteen days, covering the

surface of the ground:	
AND THE RESIDENCE OF THE PARTY	Acres.
2 inches deep	.122 1-2
2 1-2 inches deep	. 98
3 inches deep	. 81 2-3
31-3 inches deep	. 73 1-2
6 Inches deep	. 40 4-5
6 2-3 inches deep	
Further tests will be made in	irrigat

ing alfalfa and the results reported in later Press Bulletins. J. J. VERNON.

September 12, 1902.

Post Check Currency.

Although the Post Check Currency bill failed of passage at the last session of Congress, there seems to be no doubt that the measure can succeed in the coming winter if its advocates throughout the country make their desire known to their Congressmen. The plan of having United States money so printed that the bills of small denominations can be converted into checks payable to order at any postoffice is no doubt familiar to most of the people by this time, as it has been described with frequency and in detail. The convenience it would afford, the losses which it would save to the multitude who have occasion to send small amounts of mon-

ey through the mails, doing away with the trouble of securing money orders, unquestionably would be, in the aggregate, vast. The scheme is so practicable, and so entirely simple, that the wonder is that it was not devised and adopted long ago. Almost every news-paper in the country has commented upon it, and we do not recall one that has found reason for opposing it. Congress should at the coming session pass the bill and give the business public the benefit of a really valuable idea.—Buffalo, N. Y. Courier.

Banner Riding Attachment

For Walking Plows and Listers



Weight 110 Pounds.

The Banner Attachment will work on ANY plow, lister or harrow, and will do the work of any sulky plow. It will cost you \$15 from your dealer, or delivered by us at your station. We want agents. Write for terms and territory.

The Coffeyville Implement & Mfg. Co., COFFEYVILLE, KANSAS.



THE AIR
taken into the water by the
descending buckets of the

PERFECTION WATER ELEVATOR AND Purifying PUMP

chain and buckets galvanized after making. Has every dear mean buckets galvanized after making. Has every described and buckets galvanized after making. Has every described and buckets galvanized after making. Has every described feature. Lasta a lifetime. Thousands in use. Price complete, freight prepaid, only \$7.00 where we have no agt., for 10-ft. well or cistern. Add 30c for each additional foot in depth. Catalog free. St. Joseph Pump & Mfg Co., 805 Grand Av., St. Joseph, Mo., U. S. A.

160-ACRE FARM IN WISCONSIN FREE

The Stock Interest.

THOROUGHBRED STOCK SALES.

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

October 7-8, 1902-J. S. McIntosh, Kansas City, Mo.

October 7-8, 1902—J. S. McIntosa, American Shorthorns.
October 18, 1902 — Newton Bros., Whiting, Kans., October 18, 1902—Combination sale of Poland-Chinas at Clay Center, Kans., J. R. Johnson, Manager.
October 18, 1902—J. W. Dawdy, Abingdon, Ill., an D. L. Dawdy, Arrington, Kans., at Galesburg, Ill., Shorthorns.
October 20, 1902—E. E. Axline, Poland-Chinas,

Shorthorns.
October 20, 1902—E. E. Axine, Poland-Chinas, Oak Grove, Mo.
October 21 and 22, 1902—Herefords at Kansas City, Mo., under auspices of American Hereford Cattle Breeders' Association. (Week of American Royal.) October 22-23, 1902—Combination sale of Berkshires, at Kansas City, Mo. (Week of American Royal.) October 23, 1902—J. B. Davis, Duroo-Jersey, Fairview, Kans.
October 20-25, 1902—American Royal Swine sale. Berkshires, and Poland-Chinas, Kansas City Stock Yards.

over 28, 1902-J. W. Myers, Galva, Kans., Poland-

Yards.

October 28, 1902—J. W. Myers, Galva, Kans., Poland-China swine.

October 30, 1902—F. G. Bates, Bates City, Mo., Dispersion Shorthorn Sale.

October 31, 1902—J. C. Hall, Hallsville, Boone Co., Mo., at Centralia, Mo., Shorthorns.

November 1, 1902—Wm. H. Ransom, Wichita, Kans., Shorthorns.

November 1, 1902—H. M. Kirkpatrick, Farm sale of Poland-Chinas, Wolott, Kans.

November 3, 1902—Peter Blocher, Richland, Shawnee County, Kans., Duroc-Jersey swine.

November 3, 1902—Peter Blocher, Richland, Shawnee County, Kans., Duroc-Jersey swine.

November 6, 1902—Thos. Andrews & Son, Cambridge, Neb., Shorthorns.

November 7, 1902—Manwaring Bros., Lawrence Kans., Berkshires.

November 7, 1902—Manwaring Bros., Lawrence Kans., Berkshires.

November 10, 1902—Branstetter, Robinson & Wright, Shorthorns, Vandalia, Mo.

November 11, 1902—Thos. Andrews, Cambridge, Neb., Shorthorns and Clydesdales.

November 12, 1902—A. B. & F. A. Heath, and Hon. A. C. Shellenberger, Alma, Neb., 46 Shorthorns.

November 13, 1902—Own W. Berry, North Topeka, Manager. Combination sale of Berkshires. Manhatten, Kans.

November 13, 1902—Purdy Bros, Shorthorns, Harris, Mo.

vember 13, 1902—Purdy Bros, Shorthorns, Harris Mo November 14, 1902—Harry E. Lunt, Poland-Chinas

Mo
November 14, 1902—Harry E. Lunt, Poland-Chinas,
Burden, Kans.
November 16, 1902—A. B. Mull, pure-bred PolandChinas, Iola, Kans.
November 18, 1902—A. B. Mull, pure-bred PolandChinas, Iola, Kans.
November 18, 1902—Marshall County Hereford
Breeders' Association Sale, Blue Rapids, Kans.
November 19, 1902—Cooper County Shorthorn Breeders, C. P. Tutt, Secretary, Bunceton, Mo.
November 22 and 21, 1902—The North Missouri Combination Sale Association, H. J. Hughes, Secretary,
Trenton, Mo., Shorthorns and Herefords, D
November 22, 1902—Ol J. F. True & Son, Newman,
Kans., and Preston Wyckoff, Rome, Kans., Shorthorns, at Wellington, Kans.
November 28, 1902—J. R Young, Richards, Mo., Poland-China hogs.
November 28-29, 1902—W. P. Harned, Vermont, Mo.,
and F. M. Marshall, Blackwater, Mo., at Kansas City,
Mo., Godoy Shorthorns.
December 4 and 5, 1902—Herefords at Chicago, Ill.,
under auspices of American Hereford Cattle Breeders' Association. (During week of International Cattle
Show.)
December 8-9, 1902—J. E. Logan and Benton Gabbert
& Sons, Kansas City, Mo.

ers' Association. (During week of International Cattle Show.)
December 8-9, 1902—J. E. Logan and Benton Gabbert & Sons, Kansas City, Mo., Herefords.
December 16, 1902—Gifford Bros., Manhattan, Kans., Bocember 19, 1902—Hanna & Co., Howard, Kans., Percheron horsee, at Kansas City.
January 12-17, 1903—C. W. Armour and Jas. A. Funkhouser, Herefords, at Kansas City, Mo.
January 12-19, 1903—C. A. Jamison, Peoria, Ill., Shorthorns, at Chicago.
February 3, 4, and 6, 1903—Combination Sale, Wichita, Kans., Percherons, Shorthorns, and Poland-Chinas.
J. W. & J. C. Robison, Snyder Bros., and others.
February 10, 11 and 12, 1903—J. F. Stodder, George Bothwell and others, Shorthorns; also C. A. Stannard and others, Herfords; Oklahoma City, Oklahoma.
February 17, 1903—Geo. F. Keilerman, Shorthorns, Kansas City, Mo.

February 17, 1903—Geo. F. Kellerman, Shorthorns, Kansas City, Mo. March 3 and 4, 1903—C. H. Garner and M. A. Judy, Aberdeen-Angus cattle, Chicago.

Market Classes and Grades of Cattle With Suggestions for Interpreting Market Quotations.

From Bulletin No. 78, by Herbert W. Mumford, B. S., Professor of Animal Husbandry, College of Agriculture, and Chief in Animal Husbandry, Illinois Experiment Station.

1. Learn to distinguish between a market class and a market grade. Speaking generally the market classes of beef cattle are beef, butcher stock, cutters and canners, veal calves, and stockers and feeders. The grades are prime, choice, good, medium, common, and inferior.

2. The names of the various classes indicate the uses to which cat-tle in those classes are put. The tle in those classes are put. grades refer to quality, condition, and conformation, the relative importance of which factors so far as they influence market values, is indicated by the order in which they have been enumerated, quality being of greatest importance, condition next, and conformation of least importance.

3. Weight has relatively but small influence in determining the grade and price of fat cattle. Quality and condition largely govern both.

4. As a basis for comparison and study of other grades, become thoroughly familiar with the characteristics prime steers and choice feeders: these are the standard grades of fat cattle and feeders. Fluctuations in the market affect these grades less than

5. It is, therefore, more difficult to determine an approximately correct valuation for a lot of low grade cattle than for cattle of higher grades.

6. When practicable follow your consignments to market,—find out the desirable and undesirable characteristics of your cattle from the standpoint of the

7. Observe other cattle on the market

Hogs Without Worms Worms are more prevalent in logs than in any other animal, and most hog diseases can be traced to the effect of worms. Ninety per cent. of the cases of so-called Hog Cholera are nothing more than intestinal worms. Dr. Hess' Stock Food is sold on a written guarantee to expel these parasites—and even cholera is prevented when Dr. Hess' Stock Food is fed regularly and Instant Louse Killer is sprinkled in the bedding and feeding places. Dr. Hess' Stock Food gives a perfect balance of nutrition to any food, which makes profitable feeding easy. It is a wonderful tonic for all kinds of stock; it keeps hogs in perfect health, with sharp appetite and vigorous digestion.

George Stephenson, Oregon, Mo., says: "Last spring I sold two carloads of hogs that had been fed Dr. Hess' Stock Food, and they topped the market at St. Joseph. I would recommend it to my friends as a money-maker and feed saver."

Nic. New, Arcadia, Ia., says: "I have used different brands of food, but as an appetizer and digester Dr. Hess' Stock Food gives me best results. It is also excellent for worms in hogs."

Dr. Hess is a graduate of both medical and vateringsy colleges, and his preparations are recognized by these Dr. Hess is a graduate of both medical and veterinary colleges, and his preparations are recognized by these institutions of learning, and prescribed generally by the profession. No unprofessional manufacturer can equal r. Hess' Stock Food the scientific compound for horses, cattle, hogs and sheep. Sold under a written guarantee, in 100 lb. sacks at \$5.00; smaller packages cost a little more. Fed in small doses. The yellow card in every package entitles the purchaser to free personal advice and free prescriptions for his animals from the eminent veterinarian, Dr. Hess. Dr. Hess' Great Stock Book, on diseases of animals and poultry, the only complete treatise for popular use, consulted and commended by leading veterinarians will be sent free prepaid, if you write what stock you have, what stock food you have fed and mention this paper. Read it and you can master all stock diseases. C. M. McClain, veterinary surgeon, Jeromeville, Ohio, says: "It is the most comprehensive work for farmers I have ever seen."

H. N. Layman, veterinary surgeon, Lattasburg, Ohio, says: "In my practice I often follow suggestions given in your book." We also make Dr. Hess' Poultry Pan-acca' Address DR. HESS & CLARK, Ashland, Ohio.

and compare their quality, condition, conformation, and the prices paid for them with the quality, condition, con-formation, and price of your own cattle with which you are more familiar.

8. Compare prices for which various lots of cattle have been sold with market quotations, and note what grade of cattle is bringing similar prices.

9. The terms export, shipping, and dressed beef steers are no longer significant of any particular grade of cat-tle. Several different grades and even different classes are exported, shipped, and used for diessed beef.

10. The most desirable steer for export, for shipping, and for the best grade of dressed beef either for domes-tic of foreign trade is the same in each instance.

11. The best grade of any class of cattle must be practically above criticism.

When cattle grade the best of their class they command a premium on the market. Such cattle usually sell at strong prices and for their full value.

13. Cattle of the lower grades, necessarily deficient in certain particulars, sell at a discount which in many instances is greater than their inferiority demands.

14. Thus it will be seen that the tendency is to spring the market for choice, prime, and fancy grades while the common and medium grades are seldom, if ever, sold for more than they are worth, and many times they do not bring their full value owing to a tendency on the part of buyers to magnify defects of minor importance.

MARKET CLASSES AND GRADES OF CATTLE.

Beef Cattle.—Prime steers, choice steers, good steers, medium steers, common rough

good steers, medium steers, common rough steers.

Butcher Stock.—Prime heifers, choice heifers, good heifers, medium heifers, prime cows, choice cows, good cows, medium cows, common rough steers, choice bulls, good bulls, medium bulls.

Cutters and Canners.—Good cutters, medium cutters, common cutters and good canners, medium canners, inferior canners, bologna bulls.

Stockers and Feeders.—Fancy selected feeders, choice feeders, good feeders, medium feeders, common feeders, inferior feeders, feeder bulls, fancy selected, yearling stockers, choice yearling stockers, good yearling stockers, good yearling stockers, medium yearling stockers, medium stock heifers, medium stock heifers, common stock heifers.

Veal Calves.—Choice, good, medium, com-

ers, medium stock helfers, helfers.—Choice, good, medium, com-Veal Calves.—Choice, good, medium, com-

non.
Texas and Western range cattle.
Distillers.
Baby beef.
Export cattle.
Shipping steers.
Dressed beef cattle.
Stags. Stags.

IMPORTANCE OF MARKET CLASSIFICATIONS

Variations in quality, condition, weight, and age of cattle reaching the Chicago market make it necessary to establish certain classes and grades in order to report market conditions intelligibly through the public press. While the limits and characteristics of these classes and grades are comewhat vari-

able owing to fluctuations in the supply and the demand, they are still distinct enough to permit of classification and

It is evident that the value of a thorough knowledge of the various market grades of cattle is not fully apreciated grades of cattle is not fully apreciated by a majority of the feeders and breeders of beef cattle. Without a thorough understanding of market and feed lot requirements the feeder is groping in the dark. If he secures a profit it is more the result of an accident than of a definitely determined and intelligently executed plan. Such guesswork is more often followed by loss than by profit.

Those most familiar with the cattle

trade agree that there often exist wide differences between the actual selling price of cattle in the market and the previous estimate by the feeders sending them forward as to the prices they should bring. The small feeder, who seldom follows his cattle to market, has a poor chance to learn market conditions and requirements, but the regular shipper has an excellent opportunity to do so. Feeders must rely largely upon the market reports for their knowledge of the condition of the cattle trade. Market reports will always be more intelligible to readers who are thoroughly familiar with stockyards vernacular than to those who seldom visit them; hence, the desirably of frequent visits to the market. Inability on the part of the feeder to interpret correctly market quotations places him at a decided dis-advantage either in selling his cattle to a shipper or in shipping to the open market. The hope that this bulletin will aid cattle feeders and those without experience about to engage in the business of breeding of feeding beef cattle on an extensive scale inspired this attempt to classify and explain the various market classes and grades of

less importance to the breeder of pedigreed beef cattle. Unless the breeder of registered beef cattle is fortified with such information, however, he is too apt to breed without attaching sufficient importance to the fact that the only reason for the existence of the improved breeds of beef cattle is that they facilitate the economical production of beef of high quality. The first lesson for the breeder of registered beef cattle should be to familiarize himself with the demands of the fat cattle market. It is needless to say that very many breeders have almost entirely overlooked this fundamental considera-They are breeding Shorthorns, Aberdeen Angus, Galloways, or Herefords because they are Shorthorns, Aberdeen Angus, Galloways, or Herefords and not because they see in these cattle especial fitness for the economical production of beef of high quality. other words, many lose sight of market requirements.

The breeder of registered beef cattle who long overlooks the ability of his stock to produce animals that will meet the requirements of the open market will find his trade gradually, but surely, slipping away, for the successful breeder of the future will be obliged to meet the demands of a more intelligent public. Beef producers in general wanting registered bulls of some one of the breeds of beef cattle are rapidly acquiring a more critical knowledge of their busi-ness, and they keenly appreciate a thoroughly good animal; while the inferior animal, pure bred though he may be, no longer receives serious consideration. Never before in the history of improved breeds of beef cattle have so many breeders turned their attention to a study of market and feed lot requirements as a basis for their breeding operations.

It is hoped that this bulletin wil demonstrate the importance of this subject in a way that will influence many to make a careful study of market conditions and lead all to look upon a study of the market as of great importance in the production of meats generally; for what is true of the beef cattle market is also true to a large extent of the sheep and hog markets.

The task undertaken is not an easy one. Some of the perplexities are: First the somewhat variable nature of the different classes and grades due to variations in quality, condition, and visible supply of cattle, and the activity in the dressed beef trade; second, the difficulty of accurately describing animals typical of the various grades; third, the difficulty of securing photographs of average types representing the market grades; and fourth, a lack of uniformity in the classification of the various market grades of cattle and in the use of terms by those intrusted with selling, attle.

buying, and reporting the cattle market.

It might appear on first thought that Different agricultural journals have difa knowledge of market requirements and the conditions that govern them would be of little interest and of still used in the same report in referring to the same grades of cattle. In the interest of a more intelligent interpretation of market quotations a fairly uniform classification should prevail in reporting the cattle market. Agricultural journals everywhere will gladly cooperate in bringing about such a condition and all interested in the cattle trade will appreciate approved corrections.

This bulletin is the result of an investigation of the subject by the author at the Union Stock Yards, Chicago, where every opportunity was afforded and every possible courtesy extended by the officials of the Union Stock Yards and Transit Company, Live Stock Commission Companies, and by representa-tives of the Live Stock Journals. Fortyfive of the engravings used in illustrating this bulletin were made from photo-graphs taken in the Chicago Union Stock Yards, forty of which were taken

especially for use in this work. Cattle are handled in the Chicago market according to the following classes, grades of which are subsequently fully described:

MARKET CLASSES.

Beef cattle.—This class includes export, shipping and dressed beef steers. Texas and Western range cattle.— In reality this is a subclass of beef cattle; it includes al grades of Texas cattle and branded cattle from the Western ranges. Such grades are very similar to the standard grades of beef cattle.

Butcher stock.—This class includes the better grades of heifers, cows, and bulls, and common and inferior steers. Butcher stock is made up largely of cows and heifers.

Cutters and canners.-This class includes thin cows and bulls, and inferior steers and heifers. In fact anything of a low, inferior grade may be classed as cutters and canners.

Stockers and feeders.-This class includes calves, yearlings, two-year-olds, and older cattle. It may include steers, heifers, or bulls.

Veal colves.—This class includes all grades of veal calves.

Milkers and springers. — As cows classed as milkers and springers are intended for neither slaughter nor further feeding for beef production, they will not be considered in this bulletin. should be said in passing, however, that many cows shipped to the market as milkers, or springers, not too far advanced in pregnancy, are sold in the market as butcher stock or as cutters for more money than they would have brought as milk cows. The use to which an animal is put after being sold in the market is of no interest or importance to the shipper or the firm to which he consigns his stock. If, therefore, a milker or springer will net more to the shipper sold as a beef cow, it is in line with good business practice so to dis-pose of her, for in so doing the commission firm satisfies the shipper. Within these classes, cattle are graded according to quality, condition and weight.

(To be continued.)

The Wichita Exposition.

The Wichita Exposition.

The Wichita and Southwestern Exposition, an entirely new organization of public-spirited business men of Wichita, pulled off quite a successful fair last week as a first event, notwithstanding the many disadvantages. The old soldiers' reunion in another part of the city and the prevailing stormy weather during the first days of the week, together with the wholly inadequate and poorly equipped stret car service, tended to restrain visitors from attempting the journey to the fair grounds, and the management may consider themselves fortunate with the outcome of their first fair. Most of the men connected with the management were inexperienced in fair matters, yet there was very little complaint on the part of exhibitors and visitors. The management feels very much gratified at the interest manifested by the large number of visitors from southwestern Kansas.

Like all other Kansas fairs, the big feature the very was the steep show and

by the large number of visitors from southwestern Kansas.

Like all other Kansas fairs, the big feature this year was the stock show, and the display of the various breeds of cattle, hogs, and horses was quite representative and creditable, and made a good showing for the improved stock interests of southwestern Kansas.

The management has taken considerable pains to secure expert judges that were known as the most capable men for the place. Mr. C. A. Stannard, owner of Sunny Slope Herefords, Emporia, Kansas, placed all the awards on beef cattle.

Mr. H. F. Avery, of Wakefield, a prominent breeder of Percheron and Coach horses, placed the awards in the horse department, giving the same excellent satisfaction that he did the week previous at Hutchinson.

In the swine department, Mr. Geo. W. Berry, of Topeka, placed the awards.

The awards placed in class were quite satisfactory; but the award of \$50 for the best sow and five sucking pigs any breed, under 3 months old, gave rise to a protest, and considerable dissatisfaction was expressed in the matter. The same was true of the \$100 prize for grand sweepstakes herd, which went to Elm Beach Farm.

The live stock classification was quite the the treasure of the stock classification was quite to the text of the stock classification was quite.

The live stock classification was quite faulty in the grouping of large single prizes instead of dividing the purse in two or more prizes, and some breeds of cattle were offered a great deal more money than others, which undoubtedly resulted in the absence of the less favored breeds.

SHORTHORN CATTLE.

Exhibitors of Shorthorn cattle were J. F.
Stodder, Burden, Kans.; Frank Rockefeler, Belvidere; and W. H. Ransom, of North Wichita. Faulkner & Miller, of Jamesport, Mo., had quite a number of cattle on hand for sale, and showed in some of the rings. In the awards for Shorthorns but four classes were made, as follows: Breeder's herd, five head or more, first, \$40, awarded to J. F. Stodder on herd headed by Aylesbury's Duke; second, a diploma, went to Frank Rockefeler on herd headed by Orange Dudding.

Breeder's young herd, five head or more, first, \$40, to J. F. Stodder, herd headed by Aylesbury Duke; second, diploma to Rockefeller's herd headed by John Hanna. Get of one sire, four animals either sex, any age, first, \$30, to J. F. Stodder, on get of Gwendoline's Prince; second, diploma, to W. H. Ransom, on General Lawton.

Best ten or more Shorthorns, first, \$200, went to J. F. Stodder on herd headed by Aylesbury Ouke; second, diploma, to Frank Rockefeller on herd headed by Orange Dudding.

HEREFORD CATTLE.

In this division were given the same prizes as in the Shorthorn class. SHORTHORN CATTLE.

Frank Rockefeller on herd headed by Orange Dudding.

HEREFORD CATTLE.

In this division were given the same prizes as in the Shorthorn class. Four money prizes offered as first premium, with diplomas as second, were all awarded to Frank Rockefeller of Belvidere.

Mr. Rockefeller's display of nearly fifty head, which included three Polled Dur-

hams, was a cattle show in itself. While his cattle were well-bred they were brought to the fair without any special preparation, consequently did not fare well in competition with herds that had been especially fitted for show.

There was no showing of Red Polled cattle or Aberdeen-Angus, but S. M. Croft & Sons, of Bluff City, Kans., showed the same herd of Galloways that was so successful at the Hutchinson fair the week previous.

GRAND SWEEPSTAKES FOR CATTLE.

GRAND SWEEPSTAKES FOR CATTLE.

GRAND SWEEPSTAKES FOR CATTLE.

In this department all breeds competed for the premiums, and in each of the rings three breeds were represented. The display made by such a large number of cattle attracted great attention.

Grand sweepstakes herd, first, \$30, went to J. F. Stodder's Shorthorns; second, diploma, went to Rockefeller's Herefords.

Grand sweepstakes bull, any breed or age, first, \$15, went to Rockefeller's Hereford bull, Elvira Archibald; second, diploma, went to Croft & Son's Galloway bull, Roscoe 2d.

Grand sweepstakes cow, any breed or age, first, \$10, went to the Shorthorn cow Trilby, owned by W. H. Ransom. The second prize went to Viola of Wavertree, owned by Croft & Son. They also won the two prizes offered for Galloways amounting to \$75, for best bull and breeder's herd.

POLAND-CHINAS.

POLAND-CHINAS. POLAND-CHINAS.

The exhibitors in this breed were W. E. Nichols, Sedgwick City; Harry E. Lunt, Burden; John D. Marshall, Walton: F. J. Knappenberger, Penalosa; and F. S. Fulton, Sedgwick City. The classification for this breed was somewhat better than that of some others. The awards follow: Aged boar, Nichols, first on Big Perfection; Lunt, second on Look No Further, Yearling boar, Knapenberger, first on Hadley's Perfection; Marshall, second on Wilkes I Know.

Boar, 6 months and under 12, Lunt first; Nichols second.

Boar, 6 months and under 12, Lunt 11.5t, Nichols second.
Boar pig, Marshall first, Nichols second.
Aged sow, Marshall first on Fingers Off; Nichols second on Winnie I Know.
Yearling sow, Marshall first on Foley's Kellogg; Lunt second on Lucy L.
Gilt, 6 months and under 12, Marshall first; Nichols second.
Sow pig, Nichols first, Lunt second.
Sow pig, Nichols first, Lunt second.
Sow and litter, Nichols first on Beauty 2d with pigs by Foster's Perfection 2d.

DUROC-JERSEYS.

DUROC-JERSEYS.

The exhibitors in this breed were W. R. Crow, Hutchinson, H. H. Hague, Walton, J. U. Howe, Wichita.
Aged boar, Crow first on Jim's Victor; Howe second.
Yearling boar, Hague first on Mangold; Crow second unnamed.
Boar, 6 months and under 12, Hague first on Big Chief; Crow second on pig by Jim's Victor.
Boar pig Hague first: Howe second.

Victor.

Boar pig, Hague first; Howe second.

Aged sow, Hague first on Goldie H;

Crow second on Golden.

Yearling sow, Hague first; Howe second.

Sow, 6 months and under 12, Crow first;

Hague second.

Sow pig, Hague first; Crow second.

SWEEPSTAKES. Sow and five sucking pigs, any breed, under 3 months old, \$50 prize; Irwin was awarded first on Poland-Chinas and Nichols second.

awarded first on Poland-Chinas and Nicholos second.

Boar and 5 of his get, any breed, under 3 months old, \$50 prize, went to Marshall first and Lunt second on Poland-Chinas.

Herd of 10 head or over, any breed, prize \$100, went to Irwin, with Marshall second on Poland-Chinas.

A good deal of dissatisfaction was caused among the breeders by these sweepstakes awards, and some protests were filed, but apparently without effect. In the class for sow with litter of suckling pigs the question seemed to depend upon the exact meaning of the word "suckling" as compared with suckling. Of the two contesting sows it was claimed that one had a litter which was well metured and had been weaned and were close to the limit in age, while the other had a litter but a few days old. Perhaps the greatest dissatisfaction was expressed in regard to the award made in the class of ten or more, any breed. It was insisted upon that the herd which won the blue ribbon had not received a single prize in class, while that which had been given second had taken first prize in class on nine head, and second prize in class on one head, out of an exhibit of twelve head.

DRAFT HORSES.

DRAFT HORSES.

DRAFT HORSES.

The ribbons were tied in all the horse classes by H. W. Avery, the practical man of the importing and breeding firm of Henry Avery & Son, Wakefield, Kans. It was a great show. The sweepstakes ring of draft horses was the hottest contest of the year so far.

The exhibitors were J. W. & J. C. Robison, of Towanda; Snyder Bros., Winfield; Garrett Hurst, Zyba; and G. Scott, Wichita.

The awards were as follows:

PERCHERONS. Aged stallion—Robison first on Casino. Stallion, 3 years and under 4—Scott first on St. Patrick; Snyder second on Chester R. 23576.

R. 23576.
Stallion, 2 years and under 3—Robison first; Snyder second on Cowley King 28705.
Yearling stallion—Robison first.
Stallion foal—Robison first.
Robison won first prize also in classes for mares, exhibiting for 4-year-old, 3-year-old, 2-year-old, yearling, and filly foal.
The 2-year-old stallions shown by Robison and Snyder were said by ringside judges to be the two best 2-year-olds in Kansas.

SHIRE HOBERS

SHIRE HORSES.

Aged stallion—Snyder first on Honest Prince 4917.
Stallion, 3 years and under 4—Snyder first on Duke of Cowley 6221.
Stallion, 2 years and under 3—Snyder first on Cowley Jack.
Aged mare, 4 years or over—Snyder first and second,
Sweepstakes—Robison's splendid imported stallion, Casino, was given first prize as best draft stallion. Snyder was second with Honest Prince 4917.
On best draft mare, Snyder Bros. got the blue ribbon on Miss Surprise; Robison was second. Aged stallion-Snyder first on Honest

American Saddle Horse Registry. They also won first in class on road stallion, 4 years old or over; first on aged stallion in saddle class; and first on 3-year-old saddle

SHEEP DEPARTMENT.

SHEEP DEPARTMENT.

The showing of sheep was not large, and was confined entirely to Shropshires, owned by Marshall & Hague, of Walton, Kans., and C. S. Herrington, of Valley Center, Kans. The latter won first prize on pen of aged ewes, pen of yearling ewes and on breeder's pen, also sweepstakes ram and sweepstakes ewe. Marshall & Hague won first on four lambs, the get of one ram raised and owned by breeder, and all the prizes for grades.

WICHITA FAIR NOTES.

F. J. Knappenberger, Penalosa, sold four head of his choice Poland-Chinas during fair week, for \$250. This speaks well for the quality of stock he is breeding.

S. A. Spriggs, Westphalia, Kans., won all the prizes awarded to jacks and jennets. His exhibit consisted of one jack and six jennets which were of excellent quality. quality.

Fred Cowley, of Columbus, Kans., a member of the Live Stock Sanitary Commission, was one of the interested visitors at the fair and has been selected as expert cattle judge at the big Texas Fair to be held at San Antonio next month.

The poultry exhibit was an attractive one, and was under the superintendence of H. W. Schoff, secretary of the Wichita Poultry Association. The exhibit was said to be the largest as well as the finest ever shown in any fair in southwestern Kansas. C. H. Rhoades performed the difficult work of judging.

The stock sales, proposed to be held by breeders during the fair, did not prove a success. A limited number of animals had been listed, but, in view of the fact that the same had not been advertised in advance of the fair, this feature proved a failure, and but few animals were sold, which was owing to the lack of buyers.

Geo. W. Berry, one of the most capable judges of swine in the West, tied the ribbons in the hog classes. Perhaps he is one of the best known Berkshire breeders in his part of the State, and we understand that he has been selected again to judge during "hog week" at the Agricultural College this winter.

J. W. & J. C. Robison, importers and breeders of Percheron horses, Towanda, Kans., have been exhibitors at the Missouri State Fair, the Hutchinson State Fair, and the Wichita and Southwestern Exposition, and have won every first prize they have shown for, with one exception. This is certainly a record of which they can well be proud.

Secretary L. L. Resing is deserving of a large measure of credit for the successful management of an extremely creditable exposition and fair, in spite of the rainy weather of the early part of the week, and the chilling blast which swept down upon them on Friday. The crowds in attendance at the exposition were good, although the street fair midway features, the G. A. R. reunion, the big fireworks show and the wretched street car service all tended to keep the people in town away from the fair grounds.

In addition to the many other events which transpired in Wichita during the week, there was a meeting of the Inter-State Commerce Commission, to pass upon some questions regarding grain and flour rates, and also a meeting of the Live Stock Sanitary Boards of Kansas, Oklahoma, and Missouri, to consider questions of interest regarding the quarantine regulations and other matters of importance. Dr. Mayo, of the State Agricultural College at Manhattan, was in attendance at this meeting, in his capacity of State Veterinarian of Kansas.

One of the interesting events in connection with the swine department was the great combination of Elm Beach Herd and the Champion Herd of the late R. S. Cook of Wichita, as announced by Irwin & Duncan, owners of Elm Beach Herd. They have purchased the entire herd, name, files and record of the Champion Herd of Poland-China hogs owned by the late R. S. Cook, of Wichita. These two herds have been prominent for a great many years and the combining of two such well-known herds is an acquisition of special interest to the Poland-China fraternity generally.

O. P. Updegraff, whose services seem to be in demand all over the country as a starter at the big races, pleased his audience and the contestants in the speed ring during the week at Wichita. The unfavorable weather resulted in a very heavy track and delayed the races and resulted in a probably decrease of speed. The favorable weather of the last part of the week, together with Mr. Updegraff's skillful management helped to center public interest in the speed ring, and we think all were pleased. Mr. Updegraff goes this week to start the races at the Texas State week to start the races at the Texas State

Prof. F. J. Burtis, of the department of agriculture of the Oklahoma Agricultural College, at Stillwater, is a graduate of the Agricultural College of Kansas, and is consequently a hustler. He makes it a part of his business to attend the important live-stock exhibits, and keep in touch with all that is new in feeding and breeding. During the week he was one of the most interested visitors at the exposition, and doubtless was able to secure many items of information which will materially aid in his work. He reports the college in fine condition with the prospect of a very large attendance this year.

One of the most exciting features of the exposition was the bronco busting and roping contests, engaged in by the cowboys. This finally resulted in a battle royal, between the famous 101 Ranch in Oklahoma and the Arrington Ranch was the winner of the regular prize of \$100 offered by the association in the roping contest, but the 101 Ranch carrier off the special prize of \$500 offered for the same sort of contest on the following day. The skill shown by these rough riders is simply marvelous, though the glory earned was somewhat dimmed by the conspicuous collar marks which showed on the neck of one of the wildest of the pitching brancos.



GOMBAULT'S CAUSTIC BALSAM

A safe, speedy and positive cure for

Curb, Splint, Sweeny, Capped Hock, Strained Tendons, Founder, Wind Puffs, and all lameness from Spavin, Ringbone and other bony tumors. Cures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle.

As a HUMAN REMEDY for Rheu-matism, Sprains, Sore Throat, etc., it invaluable.

Every bottle of Caustle Balsam sold is Warranted to give satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by ex-press, charges paid, with full directions for its use. Send for descriptive circulars, testimo-nials, etc. Address

THE LAWRENCE-WILLIAMS COMPANY, Cleveland, Ohio.



more than half the time, to save the animal when the Veterinary reaches you. It is better, cheaper and more hu-mane to

BE YOUR OWN VETERINARY.

We teach Veterinary, Medicine and Surgery in all its branches by correspondence. You may learn the science just the same at home as in the most expensive college. The course is most comprehensive and complete. It may be acquired in die moments and at a ridiculously small cost. Send for circulars, prospectus and other information. Address,

Correspondence School of Veterinary Science, Carroll, Iowa.

CAR-SUL

CURES Mange and Itch; KILLS Lice, Ticks and Screw-Worms; HEALS Cuts, Wounds, Galls and all Sores. GUARANTEED to do the work without

Injury to eyes or other parts of animal.

At dealers or by express, prepaid, \$1.50 per gallon. 25 cent cans—dealers only. Special price in quantities. Write to-day for book and free trial Car-Sul. Address

MOORE CHEMICAL CO., 1501 Genesee St., Kansas City, Mo.

BALMOLINE The Corn-Husker's Friend And Nature's Perfect Healing Salve

MAN OR BEAST.

Druggists or by mail. Trial box, 4c; 2 oz., 25c; 6 oz. 50c. Balmoline Mig Co. Sta. B, Abilene. Ks *******************



LUMP JAW

Easily and thoroughly cured. New, common sense method New, commonsense method, not expensive. Ne care, me pay. FREE. A practical, illustrated treatise on the about our of Lump Jaw, free if you ask for Pamphlet Ne. 246.

LUMP JAW.

A positive and thorough cure easily accomplished. Latest scientific treatment, nexpensive and harmless, NOCURE, NO Chas. E. Bartlett, Columbus, Kans.



The Dana Ear Labels
are always clean and readable.
Do not make the ear sore, will not
owner's name, address and herd
or registry numbers. I supply 40 recor registry numbers. I supply 40 recor the state of the





Sumner County Carnival and Exposi-

For some years past Wellington, the county-seat of Sumner county has been holding a street fair and carnival, with varying degrees of success. This year the program was modified by the addition of a premium list for live-stock, and farm and horticultural products. While the carnival features remained the strong ones, the management had the satisfaction of knowing that they made a good beginning toward the establishment of a county agricultural fair. The herse department was a very large one, and reflected great credit on Dr. H. G. Stevens, of Wellington, who acted as its superintendent.

The exhibit of pure-bred horses in the draft-classes was rather small, but the grades showed up strongly as teams for both draft and driving purposes, as well as individual animals. The pure-bred exhibitors and awards were as follows:

The premium list is a peculiar one and provided only for a very few pure bred animals. The exhibitors of pure-bred draft horses were C. Spohr and J. A. Stevens, both of Wellington. Mr. Spohr was awarded first on the aged mare Rosette, third on Rosa the three-year-old mare, and first on the two-year-old Rosa Blossom. Mr. Stevens was awarded second on aged mare Rigolette. No premiums for pure-bred stallions were offered. In draft teams Mr. Spohr won first and Thos. White, of Wellington, second. In yearling draft animal, Spohr won first and David M. Adams, of Rome, Kansas, second.

In the draft colt class, David M. Adams also secured a ribbon.

Jacks and jennets had but one exhibitor. J. F. Harrelson, Wellington, who won all the prizes.

In Shorthorns the exhibitors were Preston Wyckoff, Rome, Fulton & Hurst, Wellington, J. B. Hummel, Wellington, F. M. Sumpter, Argonia.

Aged bulls, Wykoff first on Red Royal. Fulton & Hurst, second on McKinley.

Two-year-old bull, Sumpter, first on General Funston.

Yearling bulls, Hummel, first on Liberal. Bull under one year, first, Fulton & Hurst.

Yearling bulls, Hummel, first on Liberal Bull under one year, first, Fulton & Hurst, on bull calf by Grover.

Aged cow, Sumpter, first on Flossle; Wykoff, second on Miss Gandy; Fulton & Hurst, third on Lady Love.
Yearling helfer, Sumpter, first on Miss Chatty; Wyckoff, second on Red Rose; Hummel, third on Lillie.
Helfer under one year, Fulton & Hurst, first on calf by Grover; Sumpter, second on Nellie Bly; Wyckoff, third on Princess Mary of Shoo Fly.

RED POLLS.

RED POLLS.

But one herd of this breed was shown and it belonged to S. C. Bartlett, of Wellington. He showed in the aged bull, two-year-old bull, aged cow, two-year-old cow, yearling helfer and calf classes, winning first in each. His aged bull is named E 12 Maxse 2211; his two-year-old bull is E 2 Leo 2360; his aged cow H. 1. Kyrine 1863 and his two-year old-cow P 3 Beauty 4294.

JERSEVS.

Exhibitors: J. G. Dessinger, J. F. Harrelson and Ed. Barnes, all of Wellington. Harrelson won first on aged bull, Dessinger 1st and Barnes second on aged cow. HOLSTEIN.

One animal constituted the entire exhibit. She belonged to R. F. Plummer, Wellington, who received first prize.

HEREFORDS. Two animals constituted the exhibit, both of which belonged to R. F. Plummer, who was awarded first on yearling bull, and two-year-old heifer.

POLAND-CHINAS.

POLAND-CHINAS.

Exhibitors: Col. T. A. Hubbard, Rome, and J. B. Hummel, Wellington.

Mr. Hummel was given third prize in aged boar class on Black Diamond, and third in sow pig class on Beauty. All other prizes were awarded to Col. Hubbard, who secured first in aged boars on Dandy Jim, and second on Hubbard's Model, and first in aged sow class on Black Model, and second on Model.

BERKSHIRES.

The writer has attended nine different

BERKSHIRES.

The writer has attended nine different fairs this fall and been surprised frequently at the absence of the Berkshire breed of hogs. The only explanation of this curious fact, which presents itself, is that this breed is becoming exceedingly scarce, or else that the owners are holding them for the American Royal at Kansas City. It was a real pleasure to find a creditable exhibit of excellent quality at this fair. Col. Hubbard made a draft from his herd, and won all the prizes shown for. The classification provided for premiums for animals over six months, and under six months, of each sex. Hubbard's Long John, Hubbard's Best and Model Duke took first, second and third prizes respectively in boars over six months. His Royalty, Queen and Miss Rome Park took the same prizes in sows over six months. He also secured first in boar pig and sow pig classes.

CHESTER WHITES.

CHESTER WHITES.

But one exhibit was made in this breed. This was a pen of two pigs, owned by C. R. High, Cicero, who was awarded first on pen.

WELLINGTON FAIR NOTES.

Mr. David M. Adams, Rome, who was an exhibitor of horses, is a former resident of Ohlo, who seemed glad to have found the land of promise in Sumner county. Mr. Adams made the stay of our representative pleasant, by introducing him to the stock men and other exhibitors on the grounds.

On Friday was held the live-stock parade, which showed the prize-winning animals in succession, through some of the principal streets of the town. The parade was headed by the military band, and took place immediately after the awarding of the premiums. While it was not large, comparatively, and while some of the horses shown therein were not registered, it attracted a vast deal of attention and served to arouse an immense interest, which we feel sure will result in the holding of a county fair next year with livestock as the principal feature.

Like the fair at Wichita, a large number of the visitors were residents of Oklahoma, and a better natured lot of Western hustlers never get together or get more enjoyment out of life, than when the people of the State and the Territory meet. The carnival features of the exposition were characterized by good humor, and the absence

of any rowdyism. This is to be especially commended, not because our people are more prone to rowdyism, but because on such occasions there is always more or less lack of restraint, both personal and official, and excesses are sometimes committed by persons who would not be guilty on other occasions.

One of the most tempting exhibits on the grounds, was an exceedingly large and well arranged display of fruits, shown by the Arkansas Valley Horticultural society, with headquarters at Mulvane. The exhibit was in the charge of Geo. A. Blair, the most prominent fruit grower in Southwestern Kansas, and consisted of all kinds of fruits that are grown in that section. We were shown apples that measured thirteen inches in circumference, with pears and quinces almost as large. This exhibit was not competitor for premiums, and Secretary Barnes of the State Horticultural Society, is quoted as saying that it was one of the finest of the many he had seen this year.

The Arkansas Valley Horticultural Society exhibit was housed in the same building with the exhibit of the Sumner county agricultural products, and shared with it in the merited approval of the visitors. The latter was a wonderful display and included practically everything that is grown on a farm. We were shown new hard wheat, that tested 62 1-2 pounds to the bushel, and new soft wheat that was nearly as good. A bunch of millet measuring seven feet in height; a display of speltz, which is a new crop to Sumner County; bromus inermus eighteen inches high and heavy with seed, and potatoes, jumpkins, squashes, meions, corn and even peanuts of exceptional quality. It was a great exhibit. great exhibit.

Col. T. A. Hubbard, Rome, Kansas, who has long been one of the best known breeders as well as a prominent man of the State, is largely responsible for the success of the live-stock exhibit. He not only contributed large drafts from his choice herds of Poland-Chinas and Berkshires, but also acted as superintendent in one of the departments. While attending the fair our representative heard that the Colonel had a political bee buzzing in his bonnet. We soincerely hope this rumor may be unfounded, as we always regret to see a good live-stock breeder turn himself into an office holder. If there is a foundation in fact for the rumor we feel sure that all his acquaintances will congratulate the county on putting up such good men for office.

The Sumner County carnival and exposition was located in one of the principal business streets, and was so arranged as to occupy the entire street for the distance of two blocks, with an annex of one block on a cross street. The front was built to represent a feudal castle, and was ornamented with the name of the association, words of welcome and hospitality and various ornamental devices, all done in corn on the cob. At the left of the main entrance was a large painting representing a ploneer dug-out, with a lonesome wagon and a bony team of horses, standing in the midst of a prairie. This labeled 1872. On the right of the entrance was another painting representing a handsome house such as now abound in Sumner County. This was surrounded by a luxurlent growth of field crops, orchards and ornamental trees and shrubs, while fat cattle and hogs and spirited horses added life to the picture. This was 1902.

Preston Wyckoff, Rome, whose excellent

Preston Wyckoff, Rome, whose excellent showing of Shorthorn cattle contributed so much to the success of the live-stock features of the fair, will unite with Col. J. F. True & Son, Newman, Kansas, in holding a sale of a draft from their famous herds, at Wellington, on November 22. Mr. Wyckoff has not fitted his herd for exhibition and they appeared in the show ring in rather thin flesh, but of excellent quality. His herd bull Red Royal 129131, was taken direct from the pasture where he had seen hard service, and rouged it with the other members of the herd all summer, and yet he showed up as mellow as a caif. Mr. Wyckoff did not show any of his sale stuff, which he is keeping at home in preparation for the sale. He brought out only a few of his animals from patriotic motives, to help the fair along. And from what we have seen of his herd and what we know of that of Col. True, we anticipate a great sale in November, which will prove a snap to the people of Southwestern Kansas and of Oklahoma.

Angus at American Royal.

Angus at American Royal.

Tuesday and Wednesday forenoons, October 21 and 22, have been designated as the dates for holding the sale under the auspices of the American Aberdeen-Angus Cattle Breeders' Association, during the American Royal Cattle and Swine Show, at Kansas City, October 20 to 25. One hundred head of the famous "market toppers" will be sold on this occasion. They are the property of nineteen members of the association, and are representative specimens of the breed. The largest consignment is made by the estate of W. O. Park, Atchison, Kans., which consists of sixteen head of the "tops" of the Osborne Farm Herd. It includes Apricot of Turlington, a daughter of the Illustrious Black Knight, a cow of national reputation and the dam of Apricot of Emerson 6th, that sold for \$1,000 in the Escher dispersion, sale, and was considered by good judges, the best female in that famous sale. She also has the distinction of being out of the dam of the champion and champion sire Moon Eclipser. She is a beautiful symmetrical cow and would be an exceedingly attractive animal in any herd in the land. She is well along in calf to Make Peacer by Lord Woodlawm, whose sons are just now becoming more prominent than those of any other Angus bull. The Queen Mother cow, Queen Laura, is also a very superior animal of great scale and substance and well filled and finished at every point. She is by the Victoria bull, Kelllor of Braunhurst, and has demonstrated her excellence as a producer, and is well along in calf to the prize-winning Barbara bull, Bambo, a full brother to Mr. McHenry's undefeated champion, Barbara McHenry 13th. Queen Louisa of Osborne by Imp. Electrician; the McHenry bred Queen Camille of Osborne by Axtell of Estill, that sold for \$1,000 in the last International Exposition sale, and Queen Loretta of Osborne, sired by Axtell of Estill and out of the cow Queen Laura described

above, are all highly bred Queen Mother females, while the bulls, Roland of Osborne, by Marshall of Estill, a son of Imp. Entwistle and Heather Lad of Osborne by Axtell of Estill, are bulls of this famous Queen Mother tribe, that has produced so many record-breakers and cnampions. For real Angus type the 4-year-old cow, Rose, 2d of La Crew, excels. She is exceedingly short-legged, thick-fieshed, wide and deep and comes of the same family, and is exactly same type, as the late hamented Rosegay, Mr. Gardner's celebrated champion bull. A daughter of this cow, Rose's Folly of Osborne, sired by Black Knight of Estill 9th, the highest priced Angus calf ever sold, will also be included. Osborne Farm will send forward one of the few Estill-bred animals that will be included in the sale, in the Erica bull, Ensign of Estill 4th, a 2-year-old sired by Imp. Prince of Kerrera, and whose dam is a grandaughter of Imp. Ellise, by the famous Justice.

There are many attractive consignments in this offering, including five imported animals from the herd of M. A. Judy, West Lebanon, Ind.; cight handsome daughters of Royal Eric (sire of the \$2,000 cow, Blackbird of Woodland 4th) from the herd of R. P. MacClement, Olathe, Kans. The get of the imported bulls, Pacific, Elberfeld and Elberg will be presented by Anderson & Finday, Allendale, Kans., and other high-class consignments to this great sale will be mentioned in later issues. The twenty-five bulls contain several high-class herd-headers, and many animals that will sire the famous "market topping" steer. The females of breeding age are in calf to good, well-bred bulls, are breeders and are guaranteed as such. For further information and catalogue address W. C. McGavock, Manager, Mt. Pulaski, Ill.

Pure-Bred Associations.

Pure-Bred Associations.

The conditions which confront the breeder of pure-bred live-stock are, like those in many other classes of business, of such a nature that he must either eat or be eaten. He must unite with his fellows in the same business for their mutual protection and advancement, or he must be a competitor of every other breeder, as well as a contestant with the buyer. By uniting together, the breeders of any community not only act in unison and harmony, but they secure a larger recognition, better prices and a direct improvement of the breed which they foster. This has been conspicuously demonstrated in a number of instances where breeders, by standing together, have been able to attain the highest development in the quality of their animals, as well as to receive the highest prices which the breeders' market affords. It is a matter of frequent remark that the breeders in a certain State, which is noted for the quality of its pure-bred cattle, have been able to secure record-breaking prices by standing together, although the quality of their stock seems no better than that bred in other States. This fact has been recognized and taken advantage of by county and district associations, to their immense advantage. A notable instance is that of the Marshall County Hereford Breeders Asociation, which represents the bringing together in an association, of thirty-six breeders of this one breed within the limits of the county. They have already been given the use of the city park, and an especially erected and electric lighted sale barn, by the authorities of Blue Rapids, Kansas, rent free. They propose to have their first annual sale in November, and have made a selection of the tops from twenty-two different herds in the county, for this offering. These breeders have now ceased to be rivals in business, and have become partners in some sense. The advancement of the individual breeder, and we predict for them, not only a successful sale, but a show of pure-bred Herefords that will exceed in quality, as wel

ceed in quality, as well as number, many of the largest fairs of the season.

It is now proposed to organize a county association in Franklin County, which shall include all the pure breeds of cattle. It is found in this county that there are o great many breeders, especially of Shorthorns and Herefords, who have as yet but small sized herds, from which they could not individually make a sale, but each of whom could furnish a few head of animals for an annual or a semi-annual sale. Several of these men have recently moved from other States and brought their herds with them, and with the experience gained before coming here, they are enthusiastically in favor of such an organization. Some of the best known and finest herds of Shorthorn and Hereford cattle are to be found in this vicinity. It has been suggested that a meeting of interested parties should be held in the office of Mr. Carey M. Porter, Secretary of the Franklin County Fair Association, Ottawa, for the purpose of completing a county improved live-stock breeders' association. When the exact date for this call is known, we hope it will appear in full in all of the local papers as well as in the Kansas Farmer, and that there may be a large turn out of the breeders to take measures for their own protection and advancement.

For a Federal Quarantine Line.

One of the important items that came up or consideration at the meeting of the One of the important items that came up for consideration at the meeting of the Sanitary Boards, held at Wichita during fair week, was the question of the federal quarantine line and the open season for the coming year. The proposition to place Oklahoma below the line did not meet with approval, for the reason that, should the line be moved north, their cattle would depreciate in value to a great extent. Many of the herds in this section are free from ticks, and if the Territory were placed below the line these cattle would be classed which those which are infested, and their value lowered at once. No change in the line was recommended except that embodied in the following resolution:

"We recommend to the Department of Agriculture that the quarantine line remain the same as last year, with the exception that the counties of Moore and Bledsoe in the State of Tennessee be placed above said line, after being examined and recommended by an agent of the Bureau of Animal Industry."

Kansas, Oklahoma and the Panhandle seem to unite in their desire for a short open season. The experience of last year in pasturing Southern cattle on Northern pastures resulted in a bad condition of Oklahoma herds, and seemed to result in frequent outbreaks of fever in different sections of the Territory. The committee's report on open season is as follows:



"We recommend that cattle below the federal quarantine line be allowed to be moved to points above the said line within the States of Texas. Kansas and the Territory of Oklahoma between November 1 and December 31, 1902, and to points within the States of Virginia. North Carolina, Tennessee, and Missouri and the Territories of Arixona and New Mexico between November 1 and January 31, 1903, under regulations provided by those States and Territories. Provided that no such movement of Southern cattle shall be allowed into any of these States and Territories unless proper local regulations are enforced.

"All cattle from the quarantine district destined to postar evidence of the states and the states and destined to postar evidence of the states and the states are the states and the states and the states and the states and the states are the states and the states an

"We recommend that cattle from the district destined to points outside States and Territories above named may be shipped without inspection between November 1 and January 31, inclusive, and without restriction other than may be enforced by local authorities at points of destination.
"We recommend that cattle from the two northern tiers of counties of Arkansas be admitted into the State of Missouri by inspection from February 1 to March 31, 1903.

TRANSPORTATION OF TICKY CATTLE.

TRANSPORTATION OF TICKY CATTLE.

The following resolutions regarding the transportation of tick cattle was adopted: Resolved, That a permit to ship or drive Southern cattle as natives during the inspection period should be recognized as valid by the B. A. I. when such permit is issued by an authorized agent of the State to which the cattle are destined.

Second—Whereas, Because of the danger of tick fever (Southern cattle fever) being carried to points north of the United States quarantine line by cars used in the transportation of infected Southern cattle between points south of the quarantine line, therefore

Be it resolved, That we recommend that the Department of Agriculture require cars used within the quarantine district for the transportation of cattle originating in this district before being brought north of the United States quarantine line for any purpose, to be disinfected according to the requirements of said department, of cars used in shipping Southern cattle to points north of the line for immediate slaughter; provided, that the rule shall not apply to cars used in transporting Southern cattle to points north of the quarantine line for immediate slaughter.

Clay Center Combination Sale of Poland-Chinas.

Clay Center Combination Sale of Poland-Chinas.

This week's Farmer contains the announcement of the combination Poland-China sale at Clay Center, Kans., October 15. Mr. Johnson writes us that he has inspected every hog that goes into this sale and says that it will consist, without doubt, of one of the grandest lots of individuals ever sold in the State at one time. They will be the cream selected from nine of the leading herds of the West, some of the breeders having as high as 200 to select from. Every consignor is an old breeder and for years has been procuring from Eastern breeders the very best that money could buy. A number of them have been quite successful at leading fairs. Mr. Sims, one of the heaviest consigners, has taken more premiums at the Nebraska State Fair than any other Kansas breeder that we have any knowledge of. The sixty head of grand young males and gilts that will be offered at this sale were raised in that part of Kansas where alfalfa thrives the best. This, with wheat and some corn, makes a ration that produces a hog with a wonderful constitution. This will be one of the best opportunities of the season to get something useful.

This stock will not be loaded with fat as is frequently the case with animals at sales of this kind. The gentlemen making this sale invite every breeder to be present whether they wish to buy or not. Catalogues may be had by writing J. R. Johnson, manager. Clay Center, Kans.

Premium Uniformity at the Fairs.

Premium Uniformity at the Fairs.

One of the most perplexing things, which a breeder who desires to exhibit at county and other fairs has to contend with, is the extreme lack of uniformity in the premium lists. At the county fair, the average exhibitor of pure-bred live stock, is the owner of a small or medium-sized herd which of necessity limits him in the number of animals that he can profitably fit for the show ring. In making a circuit of county fairs, he has been met this season by such an irregular array of offered premiums, that he has been kept guessing as to what classes he can show in. At some fairs the breeds are all treated allke, at others the older and better known breeds are given the full schedule of awards, while other breeds of equal importance but less prominently known locally are cut off with a limited schedule, or else are left out entirely from the ground to claim recognition. This has been particularly true this year in the treatment of the Galloways, than which there is no breed gaining in popularity more rapidly. It has also been noticeable in the case of the Red Polls and of Duroc-Jersey and Chester White swine.

While it is true, that the board of man-

(Continued on page 980.)

Borticulture.

Cold Storage for Apples.

The New Hampshire Experiment Station publishes the following experience with cold storage:

On November 20, 1899, a number of barrels of apples were shipped to one of the Boston cold-storage houses. Reginning with February two barrels were taken out each month until July, and examined. The fruit did not receive any extra care and was representative of apples as ordinarily purchased at that time of year on the open market. It was found that the apples could not safely be allowed to remain after April 1, as they decayed rapidly after that date. The prices at time of shipment ranged between \$1.25 and \$2 and on April 1 they brought \$3.50 to \$4.25.
On October 27, 1900, a second shipment of apples were sent to cold stor-

age with the following results: Prices when put in storage \$1.25. On April 23 ten barrels sold for \$34. Expense, carting 50 cents, commission 8 per cent \$2.72. Net proceeds, \$30.73, or \$3.08 per barrel. Freight and cold-storage charges must be deducted from this amount. The storage rates were 10 cents per barrel per month, or for the season ending May 1, 35 to 50 cents, according to the number of barrels The freight charges can easily be found out according to the location of the individual.

The greatest care in handling and placing the fruit immediately into cold storage pays for the extra trouble. One must understand that cold storage will simply retard and not prevent entirely the spread of decay. If the fruit is in prime keeping condition on entering it is likely to come out in proportionately

as good condition.

Where apples were placed in brine and cold air storage, the cold air gave the best results.

From an examination of the prices paid in the fall and those paid on April I for the past six years, the results show that there has been a sufficient increase to warrant the extra expense of storage in every case and on the average the practice has resulted in good

Upon examination each month it was shown that the greatest amount of decay was found in the bottom of the barrel as taken out or the headed end as packed. A very large proportion of these were also within six inches of the bottom, showing that much care is needed in not over-crowding and bruising the fruit when packing, if the fruit is to be stored.

The reasons that cold storage apples do not keep long after taking them out are that the temperature is so much higher and conditions are far more conducive of decay in the spring. Where the fruit was taken out in the winter months and given spring conditions, as placing them in a warm greenhouse,

they decayed equally as quickly.

Our recommendation would be to pick the fruit relatively early, a triffe earlier than the common custom. Use only the best grades for storage, and pick, grade and ship the same day if possible. The sooner the fruit is in storage after it is picked and cooled down to an even low temperature, the better it keeps. Do not expect impossibilities of cold storage. It never makes an ill-shaped apple shapely, an unsound fruit sound, a wormy apple perfect, or a pale, sickly, immature fruit bright-colored. The apple can not be expect ed to increase in size or overcome rough, careless treatment it perchance may have received before going in.
With a proper knowledge of the conditions carefully complied with, there seems to be no question but what the practice of placing apples in cold stor age can be recommended.

Fall Planting of Strawberries.

A thing that is worth doing is worth doing well, says the old adage. Of all things this applies to the fall setting of strawberry-plants. One who plants in the fall almost always does so with a view of getting a crop of berries the next spring. To insure this happy result the conditions must be right. For, while the strawbery plants like cool while the strawbery plants like cool weather and even cold weather short of the coldest, it cannot grow when the ground is actually frozen. Therefore, we must aid it to make all possible growth before heavy freezing sets in

weak plant. Properly set, the plant grows faster than if it had not been

transplanted at all.
I will begin with the soil. course, better to have a rich soil to begin with—one in which the fertilizing properties have become thoroughly incorporated with the soil, a part of the soil itself. The ideal conditions are where the land has been made rich for a prior crop, like Irich potatoes or spring or summer trucking of some kind. Plants are easier to live and quicker to grow off on such land than when a great deal of manure of any kind is applied just before planting.

Cottonseed-meal is by long odds the best and safest manure for young plants, especially in the fall. Being of the vegetable origin it does not fire or burn, even when coming in contact with the roots, like mineral- or animal-fertil-izers. Then it is quick enough and yet not so soluble as to be quickly lost un-less at once appropriated by the plants, like nitrate of soda.

An endless number of implements are used by different people to open the hole to set plants—spades, trowels, hoes, knives, etc. Armed with any of these implements a man can open holes fast and well. In these holes the plants should be set, spreading the roots out as much fan-shape as practicable, and the dirt pressed firmly around the roots, care being taken that the hole is well

filled from the bottom up.

To grow off at once the plants must not be set too deep, while if set too shallow they will be apt to die. The right depth is that which covers and hides all the roots after the dirt is packed down around them.

If stable manure is to be used a good way to apply it evenly around and between the plants is a top dressing in November or later. Little if any of its properties are lost by exposure in cold weather. Instead they are washed into the soil within reach of the plant roots which appropriates them at once. Thus used they also answer a good purpose as a mulch to lessen the heavy and lifting effects of heavy freezes.

In a garden-bed when extensive culture can be given to obtain big results, the plants can be set much closer, say, ten inches apart, in the rows, the rows

HIS WAR RELIC

Not an Enviable One Was That of this Young Veteran of the Spanish-American War.

Charles J. Draper, of South Shafts bury, Vt., who server in Company D., Fourth Pennsylvania regiment during the Spanish-American war, brought home with him a relic which caused him a great deal of misery. He tried to rid himself of it but was unable to do so until a friend came to his aid with what proved to be a valuable suggestion. Mr. Draper tells of it as follows:

During the encampment in Georgia I became very ill, probably from impure water, poor food and the climate. After eating even the lightest food I would bloat to a great extent. My bowels were in a very serious condition and my heart was so weak that a few minutes' walk would exhaust me. I could only just drag myself around and sometimes I would have to stay in bed for a few days. I was treated in Georgia and in Porto Rico by our company surgeon and later by the doctor at home. They both told me it would be months before I

could expect to see any improvement.
"I had been in this state of misery for about four months when a friend recommended Dr. Williams' Pink Pills for Pale People. He had been benefited by them and thought they might help me. I began taking them and felt reneved in three days. I took them for two months and they made me well and strong. keep the pills by me all the time though I have had no need of medicine for a

long while. Stomach trouble and nervous debility always yield readily to the potent influence of Dr. Williams' Pink Pills for Pale People. These pills are a positive specific for all diseases arising from poor blood or weakened nerves. They cure locomotor ataxia, partial paralysis, St. Vitus' dance, sciatica, neuralgia, rheumatism, nervous headache, the after-effects of the grip, palpitation of the heart, palt and sallow complexions growth before heavy freezing sets in and to extend its root growth.

The three prerequisites to this end are good plants, good planting and good soil. The well grown, well rooted plant has already much of the size necessary to enable it to sustain a good crop of fruit. Besides it already has the vitality which will enable it to grow much faster in proportion to its size than a small,



I.W. C. T. Stands for Illinois Wire Cotton Tie, the best tie ever devised. In point of economy has no equal, 'It combines strength and durability, ease and rapidity of application, and is adapted to any press. No breakage and the wire never slips, hence the greatest density is maintained. Endorsed by Ginners, Compressers and Exporters. Write for circular and prices.

WM. CHRISTIAN, Agent, 2031/4 Main Street,

KENTUCKY BLUE GRASS SEED.

For a Beautiful as well as a Most Profitable Pasture sew BLUE GRASS.

The genuine Kentucky seed is what you want, and from September until June is the proper time to sow. For pure set of our own raising, and full particulars, write MT. AIRY SEED FARM, Paris, Kentucky.

6. PEPPARD, 1101 to 1117 West 8th St. KANSAS CITY, MO.

MILLET CANE CLOVERS TIMOTHY GRASS SEEDS.

eighteen inches apart, with a two-foot walk-way between each three rows. Manure can be applied as a top dressing as in field culture.

The Miami County Nurseries, Louisburg, Kansas, issue a book on strawberry culture that covers the above points and additional ones very thoroughly and it will pay all interested in this branch of horticulture to write for a copy.

Storing Sweet Potatoes.

The principal causes of loss from rotting are heat and moisture. There-fore, in order that they may be cured before cold weather sets in they should be dug soon after frost strikes the vines and proper facilities afforded for airing, thus removing the surplus moisture.

CRATES FOR STORING.

Crates are very convenient for storing; they also afford excellent facilities for ventilation. A crate fourteen inches square and twenty-two inches long in the clear will hold a little over struck-bushels. The sides and bottoms may be constructed of refuse slats from a sawmill, proper spaces intervening for airing purposes. Good stuff will be required for the heads.

A POTATO HOUSE.

A good potato house, constructed a suitable distance above the ground, is considered better for storing sweet potatoes than a cellar, the latter being too damp. The house should be provided with a double door and double wells a space of about floor and double walls, a space of about eight inches intervening, which should be well packed with dry sawdust. A single floor overhead with sawdust placed thereon to the depth of about a foot will

The distance between the floors may be eight feet in the clear; the other di-mensions to suit the quantity of potatoes to be stored.

The house should be provided with two doors, one in each end, 2½ by 5 ft., both opening outward. Sliding doors should also be provided to work on the inside of the house, thus forming an air chamber between each pair of doors. The house should be covered and the gable end closed in the usual way

At digging time the crates should be placed here and there and the potatoes gently placed therein. The sun should not be permitted to shine on them any more than can be helped. The crates may be placed in a wagon and hauled to the potato-house. The crates may be placed in tiers therein, three or four deep, so arranged that the air will circulate freely between them. A good space should be left between the bottom crates and the floor. A pathway of convenient width, leading from one door to the other should be left. During fair days, when not too cold, the doors should be left open, but kept closed during damp, rainy days. When the potatoes have been properly cured, which will be by or before cold weather sets sionally and if the walls be found damp they should be left open sufficiently long for airing purposes.

After the potatoes become sweet there is not much danger of damage from moisture.

In case you have not a proper house and wish to build one the crates can be stored in some outhouse or other room, until the house can be built; care, however, must be taken that the potatoes at no time are subjected to a temperature below 45 degrees.

Potatoes sometimes become diseased from continuous planting in the same ground and commence rotting before they are dug. Such potatoes cannot be expected to keep well.—Byran Tyson, in American Gardening.

Plant Bulbs Now.

If it desired to have the best results from a display of bulbs in the coming Kansas Farmer.

TREES best by Test-77 YEARS
LARGEST NUTSETY.
FRUIT BOOK free. We PAY CASH
WANT MORE SALEMBE PAY Weekly
STARK BROS, Louisiana, Me.; Dansville, N. Y.; Etc

AGENTS WANTED TO SELL NURSERY STOCK. 40 per cent commission paid to good, competent men. Hart Pioneer Nurseries, Fort Scott, Kansas.

Can Sell Your Farm learn how. Est. '96. Highest references. Offices in 14 cities. W. M. Ostrander, 1786 N. A. Bldg., Philadelphia



an Hyacinths.

8 Oxalis, 3 sorts.
All different colors, and fine flowering hardy bulbs.
Also Free to all who apply, our elegant Fall Oate
ogue of Bulbs, Plants and Beeds, for Fall planting at
Winter blooming Choicest Hyacinths, Tulips, Narcus, Crocus, Lilles, Plants, Shrubs and Fruits.
New Winter flowering Plants and Bulbs, Crims
Daisy, BlueColeus, Cardinal Freesis, Branching Tulips, Baisy, BlueColeus, Cardinal Freesis, Branching Tulips, Daisy, Dai John Lewis Childs, Floral Park, N.Y.

spring, not a moment must now be lost in getting the beds prepared and bulbs planted. In bulb-culture, as with everything else, perhaps even to a greater degree, there is nothing like taking time by the forelock. The retionale of planting the bulbs well before the winter sets is that the warmth still remaining in the soil, together with the moisture, induces a strong deep root growth and the newly planted bulbs secure a strong hold on the ground and become thoroughly established, actually beginning to feed themselves too before the winter sets in, when, of course, all life is sus-nended. Therefore, wideawake horti-culturists plant bulbs at this time.

Whatever work the bulb can be induced to accomplish now, before the winter, is so much added strength in the spring; not to speak of the gain in time. By the end of November it would be well to have all the fall planting of bulbs completed. Naturally soil where bulbs are to be put must have free drainage—in other words, the beds should be deep, the sail mellow and cultivated to a good depth, so as to insure a clear passage of excess of water.

If the bulbs or the roots which have developed find themselves in stagnant moisture it cannot be otherwise than injurious even if it does not result fatally. For the amateur cultivator it may be in, the doors should be permanently well to remind them of a very conve-closed. They should be opened occa-nient rule for the planting of bulbs that is, to put them their own depth below the surface of the soil.

In the case of lilies we prefer planting deeper still. Some of the greatest successes that we have seen in growing lilies have resulted from an accidental extra deep burying of the bulb.

In places where the soil is of a clayey nature, or where alternations of temperature are likely to occur during the winter, it would be well perhaps to cover the bed with light litter or leaf rubbish after the bed has been frozen. This will keep the conditions at stand-Nothing can give more satisfaction than an abundant wealth of bulb-uous-flowers in the early spring, but it is too late to do anything to attain this result if the present fall season is allowed to pass.—American Gardening.

When writing advertisers mention

The Houng Folks.

Conducted by Ruth Cowgill.

CASE OF THE FOUR-LEAF CLOVER

Her sisters shunned her, half in fear And half in pity: "Tis too bad She is not made as we, poor dear!" Four leaves instead of three she had.

Said Dr. Bee: "Her case is rare And due to influence parental. To amputate I would not dare. The operation might be fatal.

"With rest and care and simple food, She may outlive both you and me; A change of scene might do her good. One bag of honey was his fee.

"Take me! Take me!" The clovers cry To a maid bending wistful-eyed. With gentle hand she puts them by, Till all but one are passed aside.

Before her sisters' wondering eyes
Her leaves with kisses are told over.
"At last! At last!" the maiden cries,
"I've found you, little four-leaved clover.
—Oliver Hereford.

David-A Character Sketch.

David, perhaps, is rather a small subject for a sketch, being put 8 years old, and those who are ignorant of the variations in child character and incredulous of the long, long thoughts of babyhood, may deem him unworthy the dig

nity of a characterization.

We call him the Irrepressible, for no rebuke is stern enough to dim the orightness of his grin and no punishment is crushing enough to still for more than a moment, his voluble chatter and the accompanying free-hearted giggle. Indeed, such slight misfortunes as a maternal spanking, or a paternal shaking, seem but to add to his enjoyment of the same forbidden pleasuro

next time.

He is no respecter of persons in the family circle. He treats the grave pater familias with the same tolerant good nature that any little street Arab elicits. "David," said the pater, sternly, "are you going to do that again?"
"No-y, my bo-y," answered David. One evening, chancing to pass his father, as he sat in a low chair under the light, his aquiline nose sticking out invitingly. David gave it a passing tweak. This was rather much for paternal patience, as may be imagined, so the young cul-prit had to stand in the same spot, with arms stiffly at his sides, for half an This seemed to appeal to his sense of the ludicrous, and he giggled in his sleeve for five minutes. At length, and at irregular but frequent intervals thereafter, a long-drawn sigh would be manufactured. "Aint' it a half-hour yet?" would come the question plaintively. "No," sternly. Then "Te-he-he," the irrepressible giggle invariably followed.

Only once have I seen his jollity submerged by reprimand or punishment, and then I fear it was not repentance that caused the tears. It was the first week of school for him. The one great and important lesson which mother had endeavored to impress upon him was that he must be a good boy in school and come directly home as soon as released. He listened to warnings and admonitions with the good-natured and absent-minded silence which he reserved for such occasions, and sometimes arrived in good time, more frequently from fifteen minutes to an hour This tardiness he explained by saying that he was simply discovering new routes home—one, he described as a fine line, taking you first about as ar away from home as you ordinarily had to come toward it.

But in an evil day a circus came But in an evil day a circus came to town, and, as fate would have it, arrived a little after school closed at noon. This was an opportunity not to be slighted, so, in company with another young hopeful whom he called "that kid, you know," he followed the wagons to the show grounds, and there came upon so many novel and there came upon so many novel and fascinating sights that all thought of hold so much of Spain's vast empire, of dinner, home and mother fled, and is sown amid harsh conditions in North the search-party found him with hands in his pockets happily absorbed in watching preparations for the circus. This was a serious matter to his anxious family—he must be impressed with the enormity of his offense. "David, sometimes bad men are with these shows, who steal little boys and take them off and are not kind to them."
"Huh," thoughtfully. "Weil, there wasn't any men where we wuz, only some big boys puttin' up the tent poles —say those poles wuz as big as tele-phone poles—and those fellers wanted us kids to help put 'em up-they said boys' and there wuzn't any other

boys."
"David, we were very uneasy about

you," solemnly.
"Huh." with a little apologetic

get worried about me. I'm always all right"—this last grandly. "Say, I'm going to see the parade this afternoon—me and the kid is going."

"No, indeed, you are not. You were a naughty boy.

"There—didn't you hear those bells? They're having dinner now. I saw them cooking their dinner. They built a fire, you know, and cooked something in a kettle," and thus went the conver-vation, happily for his part, hopelessly At length, however, the en ticing strains of the circus band floated toward him and all the other boys rushed off, and all the bewildering, witching excitement of circus day makes itself heard and felt. For one brief moment, David's misfortune overwhelmed him and tears filled his eyes and sobs shook his little frame. Five minutes later he was gaily digging a well in a mud puddle, and incidentally piling enough upon person to merit another rebuke from his long-suffering mother.

This is the bad-boy side. There is another side, the poet soul, which is revealed only to a chosen few, kindred spirits who can feel as he feels, who can see as he sees. To such he tells where the fire-flies get their light, what the man in the moon is like, what the flowers dream while they sleep through the winter, what the fire-imps do as they dance in the open chimney.

There is nothing more entertaining than the fancies of a small boy, when he consents to reveal them to you.

The Conquerer of Mexico.

Hernando Cortez was a great man It was in the sixteenth century that he lived. He came to newly-discovered Mexico, a land rich and prosperous, filled with a dark people, numerous and intelligent, and conquered it. The early Mexicans worshipped the sun, and for a long time it had been a tradition among them that the great God of the Sun, beautiful and tall and fair, with golden hair, unlike their own small and dark people, was to come to them from the sun and teach them all the arts of

When Cortez sailed to their shore in his great strange ships, himself tall and fair, they took him for their long-awaited god, and received him joyfully. Cortez, first burning his ships, that his men might fight with more desperate energy, since they must win or die, seized the king, his benignent host, in his own palace, and keeping him captive extorted from him vast treasures of gold and silver. He had no easy task to vanquish so numerous a people, but he conquered. Among his many en-terprises, was the founding of a sugar plantation, which is still in existence and in the possession of his descendent, F uan Cortez. A very interesting the control of this plantation appeared in the Louisiana Planter, from which we

"ATLACOMULCO."

"There is one spot that the northern tourist should visit and take time to be leizurely in so doing. The great sugar plantation of Hernan Cortez, established by the Conquerer, lies at an hour's easy ride from Cuernavaca, a few hundred feet below the city.

"Atlacomulco with its vast and massive hacienda buildings was founded when the world was younger; Elizabeth was on the throne of England. The great Armada sailed from Spain while these fields were green with cane; and while the sun of Mexico looked down on this estate Spain's huge fleet was dashed to pieces on the northern coast of Great Britain. Elizabeth was quar-reling with Mary Queen of Scots, the gloomy Philip was ruling his empire with all the force of his strong character. The years pass and the beginnings of English settlement in the new world are made. The seed of the great republic that is to be, and which is destined America. Early Americans are fighting French and Indians in the backwoods of America while the crops are gathered and the cane ground here at Atlacomulco. The scroll of European history unfolds while the cane is growing, always growing, on this great estate. Napoleon comes to his splendid power and falls, and ever tranquility reigns in this quiet spot of earth.

"How solidly Cortez built his great colony, and how long it endured in peace! One forgets that Mexico, or New Spain, the 'colonia amada,' the pet colony of Spain endured nearly 300 years without war, viceroy peacefully succeeding viceroy, and the whole body of Spanish custom and tradition remaining permanent and undisturbed here. Mexico has the reputation of revolution, chuckle, climbing up on his mentor's of political unrest, yet she had, perhaps, knee. Then sweetly, "Say—you musn't the longest peace of any country on of political unrest, yet she had, perhaps,



earth, fully 300 years of serene existence!

"Sometimes one comes to think that the influence of those gently brooding centuries is what makes the charm, the deep and fascinating charm of this bright land. Rest and serenity got into the Mexican character. And when you see this vast estate still held by the heirs of the conquerer; its fields yielding good revenue year after year, the record of the long centuries of profit undisturbed, a sense of the permanence

of things Mexican comes upon you.
"The Spaniard has reconquered this little state of Morelos where he has most of the sugar estates. It is the 'reconquista' so much talked of in the press. Mexican youth complain that they find no favor with the newer lords of the soil, who send to Spain for rosycheeked Austurian lads who come over here to live among the cane and palms, far from their windy mountains and forgetting, as the years go by, their wintry weather full of snow and cold blasts. Here you find, on the estates, Spanish 'administradores,' or mana-gers, often with Mexican wives. The next generation will be Mexican, for the climate will transform the children of the most energetic Spaniard into

creoles.
"Place 10,000 young Americans here, let them take wives of the country, and the third generation will be tropical Mexicans. This powerful sun overhead is the inescapable transformer, and character as well as physique is made

over.
"The early Spaniards in Mexico were marvelous men; their energy was phe-nomenal. They built great roads, threw great bridges over ravines and rivers, established schools and housed them nobly in massive stone edifices, built numberless cathedrals and churches, erected public buildings that still endure as good as when new, and left a permanent impress on Mexico. Hernan Cortes, of whom one must think here in the city of his winter pleasure,

was no common man."

FOR THE LITTLE ONES

TEN LITTLE TOES.

Baby is clad in his nightgown white, Pussy-cat purrs a soft good night, And somebody tells, for somebody knows, The terrible tale of ten little toes. Right Foot.

big toe took a small boy, Sam, the cupboard after the jam; little toe said, "Oh, no! no!" little toe was anxious to go; little toe said "Tisn't quite right;" tiny little toe curied out of sight."

Left Foot.
This big toe got suddenly stubbed;
This little toe got ruefully rubbed;
This little frightened toe cried out "Bears!"
This little timid toe, "Run upstairs!" This little timid toe, "Run upstairs!"
Down came a jar with a loud slam; slam
This little teeny toe got all the jam!
—Clara G. Dolliver.

A Little Girl Who Did as She Pleased. Once—oh, a very long time ago—there was a little girl who grew tired of minding her mother. "Oh! mother, she said, one day, "Why can't I do as I please?"

"You ought to love your mother so

'You ought to love your mother so much that would would want to please her." her," answered her mother, gravely, "But if my little girl is tired of obeying me, she need not. For to day you may do just as you please. Do not ask me about anything at all that you wish to do."

"Oh, you dear, good mother," said the little girl, throwing her arms about her mother's neck. "Oh, I shall have the best time I ever had."

under a tree, to think what she wanted to do. "I'll put on my beautiful blue dress that mother lets me wear only on Sundays, and then I'll go to see Nellie Jackson who has such dear little ponies to ride and such fine apple trees to climb and—yes, I'll go down to the store and buy some candy—all the candy I want." So she ran to her room and put on the dainty dress.

"Mamma," she said, coming to her mother with her dress ready to fasten, 'Would you wear my best hat to-day or the old blue one?"

"Do just as you please, my dear," said mother. "And a girl who is too big to please her mother is big enough to fasten her own dress."

Somehow, this did not sound pleasant and the little girl threw herself upon the floor and cried angrily. Mother left the room, and she, finding that crying did no good, got up and tried to fasten her dress. She could not reach the buttons but finally manage: to fasten it at the neck so that it would at least stay on, though it did not look pretty, at all. At length, put-ting on her best hat, she started off to see Nellie Jackson. On the way she ate some wild grapes that she found which she knew her mother would not approve of but they were delicious and she remembered that she could do as she pleased, so she ate a great many of them, and her pretty dress was dreadfully stained when at length she started on.

Arriving at Nellie's house she asked at once to see the ponies, and soon the two little girls were tearing all over the farm on the ponies' backs. It was great fun until Nellie's father saw them dashing through his peach orchard and sternly told them to let the ponies and try to behave like ladies. Both girls felt ashamed and our little girl said she was going home and invited Nellie to go down to the little store that stood not far distant from her house. So they ran down the road and arriving at the store, bought all the different kinds of candy to be found at that store. Neither little girl had any money, and when the storekeeper told them that it was 40 cents and that they must pay for it or leave it they looked at each other a moment, then put the tempting bag upon the counter and went out, crying.

"Come home with me," said our little girl. "I can do just as I please, and we'll find something to do that is fun."

So they went home and first thing they went to the pantry and opened a can of jam, which was very good, and they ate—oh, ever so much! Then they climed up onto the little back kitchen porch and slid down the slanting roof. By this time their clothes were a sight, and when our little girl saw her dress all ruined, she felt sorry and began to This was the third time that day that she had cried. She usually was too happy to cry often.

"I'm going to get down from here,"

she said, and started down.
"I shall slide down," sail Nellie, and first thing she knew she come co-flung! onto the ground. It was rather rough, but it looked so funny that our little girl tried to too, but for some reason she fell heavily instead of sliding as Nellie did, and her arm doubled up under her, and when mother came at her cry, and picked her up, she found that the poor little arm was broken. Our poor little girl had a sorry time then. And it was weeks and weeks before she could play as she had before One day when she was sitting with her mother, her arm carefully bandaged up, she said, "I'd much rather mind you, mama, than do as I please. I didn'tne best time I ever had."

mama, than do as I please. I di
So she ran out doors and sat down have a good time at all, that day."

The Some Circle.

ROCK ME TO SLEEP.

Backward, turn backward, O Time, in your flight, flight,
Make me a child again just for to-night!
Mother, come back from the echoless
shore,
Take me again to your breast as of yore;
Kiss from my forehead the furrows of

Smooth the few silver threads out of my hair;

Over my slumber your loving watch keep—Rock me to sleep, mother—rock me to sleep!

Backward, flow backward, O tide of the years!
I am so weary of toil and of tears—
Toil without recompense, tears all in vain—
Take them, and give me my childhood again!
I have grown weary of dust and decay—

I have grown weary of dust and decay— Weary of flinging my soul-wealth away; Weary of sowing for others to reap— Rock me to sleep, mother—rock me to sleep!

Tired of the hollow, the base, the untrue, Mother! O mother! my heart calls for you! Many a summer the grass has grown green, Blossom'd, and faded, our faces between, Yet with strong yearning and passionate

pain, I to-night for your presence again e from the silence so long and

Rock me to sleep, mother—rock me to sleep!

Over my heart, in the days that are flown, No love like mother-love ever has shone; No other worship abides and endures—Faithful, unselfish, and patient like yours; None like a mother can charm away pain From the sick soul and the world-weary brain.

Slumber's soft calm o'er my heavy lids green—

creep— Rock me to sleep, mother—rock me to sleep!

Come, let your brown hair, just lighted with gold, Fall on your shoulders again as of old; Let it drop over my forehead to-night, Shading my faint eyes away from the

more will throng the sweet visions of Lovingly, softly, its bright billows sweep—
Rock me to sleep, mother—rock me to
sleep!

—Elizabeth Akers.

-Elizabeth Akers.

The Mental Outreach of Women. MISS FLORENCE LONGNECKER, PAOLA, KANSAS.

READ BEFORE MISSOURI VALLEY HORTICUL TURAL SOCIETY.

Woman's place has always been an important one, this no one denies. Whether directing a household or a kingdom, at the head of a family or an army, as legal counselor, as spiritual advisor, as wife and mother, whatever the requirements of her position, they have always been faithfully fulfilled. And yet for some reason, which we are not prepared to state, there has always been more or less discussion over her intellectual ability, or her lack of it, and the wisdom and propriety of her developing and using the faculties sho might possess.

HER EDUCATION.

Some authorities have recommended that her education be confined to read ing, writing, and music, some have be-lieved that she might add arthmetic, others have protested against her pursuing studies that could be of no use to her in the home, her only legitimate field of action. The probable result of teaching girls the same subjects which their brothers learned was long supposed to be domestic and social disas-

HER POSITION IN LIFE.

Woman much occupy a subordinate position, cultivate such graces of manner as are most admired, and leave the solution of all knotty problems and weighty questions to man, whose nat-ural endowments fitted him to cope with them.

One of George Elliott's characters is represented as saying, "Women are quick but shallow, and cannot go far into any subject." This idea was for many centuries the prevailing one, but in spite of it ancient and modern history furnish countless examples of wom-anly wisdom which seem to prove that the contrary is true.

We are told of women whose counsel was sought, and of some who proffered the same, the record being that her suggestions were usually acted upon, with satisfactory results.

HER JUDGMENT.

Women whose tact, judgment, and nobility of character compelled recognition in public life have never failed to appear, even when the life of women in general was one of seclusion. Such was Esther whose influence over royalty saved the lives of her countrymen. And we have reasons for believing that

Such was Florence Nightingale. Such were the women of every age whose influence aided every good work the world has undertaken. It is said that during the French Revolution, "Political schemes were wrought out, not in the cabinet of a statesman, but in the salon of a lady." That 'the power of the women was felt in every public act, and that they were the head and soul of all the intrigues of the time." the intrigues of the time."

THE WOMAN PATRIOT.

Of the women whose patriotism and courage so aided the colonists during the American Revolution we need not speak. Their deeds have been the theme of song and story from that day We wish to notice some of to this. those belonging to a later period however, because their achievements indicate that a change in the relative post tions of woman and the world has gradually taken place.

A WOMAN'S OPPORTUNITIES.

Not that she has exchanged home influence and social prestage for the turmoil of public life, not that she is excused from the duties of home and so-ciety. But it has been found that in connection with these, she can do several other things and do them well.

Many women are obliged to maintain a home by their own efforts. To enable them to do so with greater ease the trades and professions have one by one been opened to admit them. There was a time when a literary woman was forced to assume a masculine nom de plume, in order to sell her productions. Now the only question to be decided is that of merit. Mrs. Browning had she lived, would have been a strong rival of Tennyson. The strength and pathos of Mrs. Stowe's writings, the ringing enthusiasm of Julia Ward Howe's, the wit of Marietta Holly's, bear witness to the literary range of some American women. Many women have been the assistants of literary men who owe much of their success to the wise counmuch of their success to the wise coun-sel and help of wife or daughter. It is said that without the aid of his daughter Ethel, who has some reputa-tion as a writer herself, John J. Ingalls could not have accomplished nearly so much work as a lecturer, as he has done. The wives of Bayard Taylor and Henry Ward Beecher were their best assist-ants. There is a story told of a decision which was given recently in the U. S. Supreme Court, being reversed when the judges after consulting their wives discovered that their definition of sauce was incorrect.

HIGHER EDUCATION.

Since women have been admitted to most of our leading colleges, and the fact has been established that they compare favorably with men in their work, no protests against their higher education are heard. Indeed it appears that a majority of the graduates from the schools of the United States are girls, and that it is the boys who will soon contend for equality. The masses are rapidly becoming educated. (That is, the women.)

Women practice medicine and law, they deliver lectures. They are devoted ministers and missionaries. Mrs. Livermore's father, it is said, used to say mournfully, "If you were only a boy, Mary, what a preacher you would have made," little dreaming that she might become one since she was only a girl. Ability without opportunity is useless. Gen. Grant would probably never have been known, had not the civil war revealed his power. Knowledge must precede practice, but alone gives skill.

WOMAN'S INFLUENCE.

So women are reaching out to the uttermost parts of the earth, their influence touching every nation, instructing, guiding, helping as they never have done before, not because they have more ability than the women of other times but because they have better op-portunities for work. Women now are engaged in almost every line of business as a matter of course. She may publish a paper, operate a farm, have charge of a store, a telegraph office, or anything else she may choose without comment. And what a ruler she is. Queen Victoria's reign has been a benediction to England, and to the world at large. Woman rules in social life, and whenever a high standard of morality is established in society, a correspond-ing standard must follow in politics. "Home rule" is a principle which most men support part of the time. Whether they do or not, no other work compares in importance to that which is done None is so enduring, none so there. fraught with possibilities for good or

THE W. C. T. U.

A 2 million increase

In the past two years the sale of "Ball-Band" goods increased over two millions. Honesty, quality and fair prices made this increase possible.

66 Ball-Band P Knit Boots, Socks, Rubber Boots, Shoes, and Arctics

have won the favor of farmers, ranchmen, lumbermen, etc., in every part of the country, through sterling merit. Made in many styles. Insist on getting the genuine "Ball-Band" Brand. Look for the Red Ball in the trade-mark. Get them of your dealer. MISHAWAKA WOOLEN MFQ. CO., Mishawaka, Ind.

and other organizations of a similar character; nor that the "coming man" is under the influence of women during most of the years of his school life. The position of woman is an index to the character of a nation. Some one has said, "It is reserved for America to show to the world the rarest excellence of woman in the exercise of the largest and truest liberty the world has ever known.

I quote also from a private letter written by a brave little Kansas girl wno is now teaching in a mission school in Chili. "If we would appreciate our schools, our country, and our civiliza-tion, we must go to some place like this." Living in this land of "modern chivalry," where the mental and moral qualities of women are so highly valued, the responsibilities of American womanhood are proportionately great.

But we may be sure that her power will be used in the future, as in the past, to benefit humanity and that every added privilege will be claimed but as another chance for extending her territory in the field of useful labor.

Reading. '

EDITOR KANSAS FARMER:-A great many people realize how great an agent literature has been for the improvement of the public intellect; yet how many fully understand the enormous amount of evil disseminated throughout the world, by the agency of the press. The press is the medium through which the character of our whole body politic is shaped and formed.

We know there are many people who can not read, and a still larger per cent who are careless and indifferent, and read very little. In this class are to be found those who spend many precious hours of life perusing novels, and reading matter of a sensational nature, which is detrimental to a calm reflective condition of mind. To read and assimilate thoughts of others, is a very simple matter; but what of the results? Until a thing is brought before us, we have no conception of it; therefore can not be influenced by it. But let it once be made known and we never can be entirely released from its influence. Thus our moral nature is debased or ennobled to the extent we read, and a person surely is drawn into the actual association corresponding to the class of reading he peruses.

We know, as there are classes and distinction among people, so there are in regard to literature. "As a man in regard to literature. "As a man reads so is he," is almost invariably correct. People who read, are the teachers of the human race in the broadest sense, and through them must a people advance or decline. How important, then, that our choice

of reading matter be such as will instruct the mind to something high, pure, and elevating; something that is practical and beneficial, that will teach us how to grasp and overcome the obstacles of life with greater ease. A great many people are looking for assistance; are watching for ways by which they may be better clothed, fed,

and warmed. The common people do not read enough. The busy tradesman, the artisan, mechanic, and factory em-ployees, complain of lack of time. The banker, financier, and speculator, are too "busy." The market reports are all that attracts their attention. The farming class are also short on time, at least a good part of the year; but it seems to me it is more important for the farmer to read than for the others, if we make any distinction. And especially is this true of farm papers. Take the circula-tion of some of our best strictly "farm papers" and see what a small circulation they have, compared with numbers of magazines and story papers. We do not condemn reading stories, but we do know a person, especially a farmer, should understand the art of production from the soil in a manner to pro-cure the best results.

In our opinion agriculture is the noblest profession existing and is the father and life of all. Farm papers are the text books of fresh, every-week investigation and study. The sum of care and perseverance, the impressions born by mingling with and learning the secrets of nature. The farm paper is the greatest teacher of all. Its influence is stupendous, and results never ending. Subscribe for it and carefully read it. It will do you good. It will show you many secrets which by experience would be costly. By all means read, read something good, and never forget the farm paper. Medford, Okla. L. A. WELD.

Special Round-trip Excursion Rates to New York

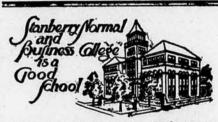
via Nickel Plate Road. Tickets on sale October 3 to 6 inclusive, good leaving New York not later than October 14. Address John Y. Calahan, General Agent, 113 Adams St., Chicago, for reservation or sleeping-car space and other information. (No. 50)

When writing advertisers please mention Kansas Farmer.

FOR OVER SIXTY YEARS

An Old and Well-Tried Remedy. Mrs. Winslow's Soothing Syrup has been used for over firty Years by Millions of Mothers for their Children while Techning, with Parfect Success. It soothes the Child, softens the Gums, allays all Pain; ourse Wind Colic, and is the best remedy for Diarrhosa. Sell by druggist in a yeary part of the world. Be sure and ask for Mrs. Winslow's Soothing Syrup, and take no ether kind.

Twenty-dve Cents a Battle.



Great school for the masses. Students enter at any time and select their own studies. Faculty of twenty members representing America's most famous Universities. Oldest and best-equipped independent Normal west of Chicago. Lowest rates. Secures positions for graduates. If you wish a standard education write to us if you have money or not. We will assistyon. For free Catalogue, address, D. S. ROBEINS, Pres.

STANBERRY, MISSOURI.

WESTERN NORMAL COLLEGE

Recognized by the State of Iowa; by business men; by music circles; and by the lowa press. Oldest, strongest, and best-known school for practical education, and located in the best college city of the West. Send for Catalogue. Twenty-first year opens Sept. 2, 1902. Address

J. M. HUSSEY, President, Shenandoah, Iowa.

Dodd, Dooley & A. J. DOOLEY, Manager, TOPEKA, KANSAS.

MANUFACTURERS OF PURE SOFT COPPER

htning Rods.

majority of the husbands who attend these horticultural picnics too. Such who are reaching to so many hearts were Miriam and Deborah and Abigail. Through the agency of the W. C. T. U.

Endorsed by the Farmers' Mutual Insurance Company of Kansas. Prices the very lowest. Send for free booklet on the Laws and Nature of Lightning and how to control it. A good many wanted in every county to handle our goods. References—100,000 farmers in Iowa and adjoining States, and the Kansas Farmer.

A Lever to Lift a Race.

The intelligent efforts of a man to lift his race to the higher plane of civilization interest all right-thinking people. In a general and indefinite way it has been understood that Booker T. Washington is doing something for the colored people of America and of Alabama in particular. The cosmopolitan character of his "Tuskegee Normal and

Inquistrial Institute" is little realized.
The "Bureau of Nature Study for Schools and Hints and Suggestions for Farmers" has recently issued a leaflet from which some idea of the practical nature of the work may be inferred. Following is an excerpt from this "Farmers' Leaflet:"

THE FORAGE CROP.-BY G. W. CARVER.

"Make hay while the sun shines," is a proverb which may have a double meaning this year, at least we are too apt to think of its meaning in more ways than one. The sun has been shining so constantly and hot it seems now that this growing season will not give us a grass or forage crop of any kind worth much to the farmer. Yet with good rains from now on till frost a good forage crop may be housed by the in-dustrious, wide-awake farmer. Many of our farmers are so busy marketing their cotton during the fall months, they overlook many tons of grass which go to waste right at their doors. Hundreds of dollars leave our cotton belt section every year for hay that could be saved at home, better, sweeter, and more nutritious than much of that we have shipped to us.

VALUE OF CRAB GRASS.

Our crab grass, of which we have several varieties, is among the most nutritious known. Comparing it with tim-othy hay, chemical analysis shows the following: Of fat formers, in timothy, we have forty-eight pounds for every one hundred pounds of dry hay, and eight pounds of that which makes milk and muscle. In crab grass we find forty-five pounds to the one hundred of fat formers and eleven pounds of that which makes milk and muscle, making a difference of three pounds of fat formers in favor of timothy, but three pounds of muscle and milk formers in favor of our crab grasses. Ine muscle and milk formers determine largely the value of a food as the fat formers can always be quickly and easily supplied. In short, our crab grass is a much better hay than the timothy which we are constantly shipping in. I rode for a distance of sixteen miles through the country a few days ago and the thing that impressed me most was the numer-ous tufts of timothy hay scattered and growing on either side of the road from Tuskegee to my destination, showing that the farmers were neglecting their own valuable and nutritious crops and sending their hard-earned money to the West for an inferior article. It is time now to call a halt and save every bit of it. Indeed many fields would yield better returns to the farmer in hay than in

TIME TO CUT.

All grasses intended for hay should be cut when they are in bloom or when the seeds are just beginning to form. Choose favorable weather and dry

with as little rain or dew falling upon it as possible. As soon as dry, stack or send to market. If stacked out of doors, great care should be taken to see that it is well done. Frequently rake the stack down with a garden rake as the work progresses. This will remove the loose hay and otherwise assist the stack in shedding water more readily. The top should be covered with boards, bark, canvass, or coarse grass. This will protect the good hay.

chimneys for? MACBETH's are for comfort, light are typined mind.

A beautiful character will make poetry out of the prosiest life, bring sunshine into the darkest home, and develop beauty and grace amid the ugliest and economy.

My name on every one.

If you'll send your address, I'll send you the Index to Lamps and their Chimneys, to tell you what number to get for your lamp.

MACBETH, Pittsburgh.

KINDS OF FORAGE TO SAVE.

Nearly or quite all of our wild grasses make good hay and may be ranked as follows as to their feeding value: Crab grass, which includes all of the crow and goose foot varieties. The Johnson grass which yields heavily on rich land and makes an excellent quality of hay if cut before the stems become too woody. All of the marsh grasses make good hay if cut before they become too coarse and woody. Broom-sedge makes a fine quality of hay that is greatly rel-ished by stock if cut when the seed stems just begin to form. Corn-fodder, pea-vines, and sweet-potato vines must not be overlooked. The pea-vines and corn-fodder should be cut or pulled and cured in the usual way; housing the same carefully when dried. Sweet-po-tato vines have almost as high a feed-ing value as pea-vines. They should be cut before the frost fall on them and thrown across racks to dry when they may be stored the same as pea-vines. They will of course turn quite black but this does not injure them. If every farmer will save his hay

properly he will realize before the maturity of the next crop that the time spent in this way pays well.

Look for the Beautiful.

The magazine "Success" is sometimes criticised as taking too material a view of life. Here, however, is something refreshing for those who are interested in something besides the end-

terested in something besides less chase after dollars:
"Why, Mr. Turner," said a lady who had been looking, with the artist, at wonderful landscapes, "I one of his wonderful landscapes, "I can not see those things in nature." Don't you wish you could, madam?" inquired the artist.

The world is full of beautiful things, but very few have the power to discern them.

Fortunate is the person who has been trained to perceive beauty in everything; he posses a heritage of which no reverses can rob him.

There are some people who, like the bee, gather honey from every flower, extracting sweetness eyen from a thistle, while others seem to distill bitterness from a clover blossom, a lily, or a rose. The difference between men lies in their early training or their habitual attitude of mind.

Every soul is born responsive to the beautiful, but this instinctive love of beauty must be fostered through the eye and the mind, or it will die. craving for beauty is as strong in a child of the slums as in a favorite of fortune. "The physical hunger of the poor, the yearning of their stomachs," says Jacob A. Riis, "is not half so bitter, or so little likely to be satisfied, as their æsthetic hunger, their starving for the beautiful."

A life that has been rightly trained.

A life that has been rightly trained will extract sweetness from everything; it will see beauty in all things. Every sunset, landscape, hill, mountain, and tree will reveal some new charm of nature. In every patch of meadow or wood, in every leaf and flower, the trained eye will see the beautiful; the cultured ear will hear melody in the babbling brook and harmony in the soughing winds.

There are superb personalities that go through life extracting sunshine from what to others seems but darkness, seeing charm in apparent ugliness, discerning grace and exquisite proportions where the unloving eye sees but forbidding angles and distortion, and glimpsing the image of divinity where less beautiful souls see but lost and degraded human being.

Yet it is a heritage possible to all who will take the trouble to begin early in life to cultivate the finer qualities of the soul, the eye, and the heart.

It is said that the most disgusting object if put under a wegnifying glass of

What are lamp

It is said that the most disgusting object, if put under a magnifying glass of sufficient power, would reveal beauties undersamed of; so, even in the most curl lovely environment in the most curl lovely environment in the most curl. conditions, there is something of the beautiful and the hopeful, when viewed through the glass of a trained and disciplined mind.

surroundings.

It is not circumstances, so much as the attitude and quality of the mind, that give happiness, contentment, and divin-

\$100.00 Cash Prize for a Name.

For the new Daily Limited train to California to be placed in service November 1, 1902, by the Rock Island System and Southern Pacific Campany, via the El Paso Short Line. The competition is open to the public and conditions involve no fees of any kind. For circular of instructions, address at once John Sebastian, Passenger Traffic Manager, Rock Island System, Chicago.



urniture

处于新华的新华的新华的新华的新华的新华的新华的新华的新华的

The Largest and Most Complete Stock of Furniture, Carpets, and Stoves in Kansas at the Lowest Prices.

We Sell the Celebrated Buck Stoves and Ranges

FREIGHT PAID TO ANY POINT IN HANSAS.

EMAHIZER

533 Kansas Avenue, Topeka, Kans.

苏福福福福福福福福福福福福福福福福福福福福福福福福福福福

\$25.00 To California

and to Prescott, Phoenix, and many other points in Arizona.

On sale daily during September and

Liberal stopovers in California permitted on these tickets.

Tourist sleepers and free chair cars daily. Personally conducted excursions tri-weekly.

If dissatisfied with your present condition why not investigate the splendid advantages offered in California.

Santa Fe

T. L. KING, Ticke Agen, Dep o. or T. M. JAMES, JR., 830 North Hansas Ave.

WRITING ADVERTISERS MENTION KANSAS FARMER.

Insects.

PRESS BULLETIN NO. 85, OKLAHOMA EXPER-IMENT STATION.

Plant diseases and insects are doing so much damage to the orchards and gardens in Oklahoma [and Kansas] that it has become necessary to protect the plants by some artificial means. The method of destroying the diseased and wormy fruit and foliage is of great value if persistently carried out. This can not be done in so thorough a manner, however, as to destroy all the diseases and insects present, and a few left over and those that will come from neighboring farms will produce a dangerous number next year. The cheapest and most practical method of protecting plants from diseases and insects is spraying. The ideal method is to spray thoroughly and then destroy all diseased fruit, leaves, and trash about the orchard and garden. Either method is good when used alone and the value of each is greatly increased when used together.

Spraying solutions are divided into two general classes. Those designed to prevent the attacks of fungus diseases are called fungicides, and those designed to destroy or prevent the attacks of insects are call insecticides.

FUNGICIDES

Fungicides protect the plants by preventing the fungus diseases from gaining a foothold on the plants. The solutions are composed of materials that destroy the germinating spores where it comes in contact with them. The copper and sulphur compounds are the most effective materials used in these solutions. Most of the fungus diseases of plants that can be prevented by spraying reproduce by means of two kinds of spores. One kind of spore is produced in the spring and summer and germinates soon after maturity. If the spore finds lodgment on tender growing parts of the plant and a favorable amount of heat and moisture is present germination and growth immediately follow. If these spores do not soon germinate they lose their vitality. This process of germination, growth and fruiting goes on during the spring and summer. Late in the season another kind of spore is produced, which is capable of passing through the winter and germinating the following spring. The germinating spores send the roots directly into the tissue of the plant, unless it is a surface-growing fungus, in which case the roots spread over the surface of the plant. If the plants are covered with a good fungicide when the spores germinate the spores will be killed.

INSECTICIDES.

There are two general classes of insecticides. The first class of mixtures contains some poisonous substance that kills the insects when it is eaten with the foliage or fruit on which it has lodged. Paris green, London purple, and white hellebore are the poisonous materials most commonly used in these mixtures. These mixtures are effectual in destroying only those insects that and are harmless to the insects that suck the juice of the plant.

The other class of insecticides kills the insect by coming in contact with the body. Kerosene emulsion, whale oil soap, and pyrethrum powder are the most common materials used in these Mixtures of this class are

to destroy those insects juice of the plant and can not be destroyed with poisons. The poisonous insecticides may be mixed with fungicides and applied all in one spraying, but other insecticides must be applied separately.

NO HARM TO PLANTS.

The fungicides and insecticides, if properly prepared and applied, have no effect upon the plants. If the mixtures plication should be made about two permanent water, or a small lake where corn crop.

Protection Against Plant Diseases and are not correctly prepared and applied they do not form the desired protection to the plants and may damage the foliage and fruit. There is never enough poison on the well-sprayed fruits and plants to alter their value for food. Most fruits are pared before eating and all sediment of the spraying material removed. In the case of fruits that are not pared before eating, as grapes, a person would have to eat from 350 to 500 pounds to get a small dose of poison. It will always injure the sale of such fruits, however, if there are any signs of a spraying material on them when placed on the market.

There are several kinds of spray pumps on the market that can be purchased for \$8 to \$12 that will do all the work on the average farm. The best form of pump for the ordinary farm orchard is a compact, strong, barrel pump. It should have a good-sized air chamber and be capable of throwing a good quantity of water with great force. The working parts should be made of brass and if all parts of the pump that come in contact with the liquid are of brass the life of the pump will be greatly increased. Agitator attachments can be purchased as a part of the pump or as separate machines. These attachments are very convenient but are not necessary; the agitation of the liquid may be done with a board, by hand.

The pumps should be supplied with about fifteen or twenty feet of one-half or three-quarter inch rubber hose for each nozzle attached. A good length of hose will save a great deal of time and trouble about reaching all parts of the trees and vines.

THE NOZZLE.

The nozzle should make a fine spray and be able to throw it several feet. There are two well-defined groups of nozzles now in use. The first group forms the spray by forcing the liquid against an obstruction at the outlet of the nozzle. These nozzles throw a fanshaped spray and most of them can be adjusted to throw a very fine spray or as coarse a spray as may be desired, or even a solid stream. These nozzles are easily opened and cleared of any clogging material that may lodge in them, by adjusting them to throw a solid stream. This form of nozzle is solid stream. This form of best adapted for general use.

The second group of nozzles gives the liquid a strong rotary motion just before it leaves the nozzle. This causes the liquid to form a funnel shaped spray. These nozzles form a very fine spray and for applying liquids that are not liable to clog are a very good form.

The spraying must be well done if it is to be of any value. Slip-shod work will never pay. It is just so much time and material used and still the plants are not protected. The liquid must be applied in the form of a very fine mist or spray. If the liquid is thrown on the or spray. If the liquid is thrown on the plants in large drops it collects and runs off, but if thrown on in a fine mist the foliage and fruit can be wet on all sides and but little liquid reach the ground. The liquid muts be applied from every direction so that all parts of the foliage and young shoots will be wet. If the top of the tree is very dense the nozzle should be held in the center and the spray thrown in every direction. The work can not be done in a hard wind. The side of the plant next to the wind will be washed and the opposite side show little signs of eat the foliage or fruit of the plants, plied to the pump the better the form of spray thrown by the no

SPRAYING A PREVENTIVE

Spraying is a preventive and not a remedy. There are a few fungus diseases that can be destroyed by spray ing but they can also be prevented by the same operation. The damage done by a disease or insect can be repaired only by the plant itself, and such work as can be done to protect it from further damage is about all that can be done for it. The spraying should be done early and the protection made com-plete before the diseases and insects appear. The first spraying should be done in the orchard, vineyard and berry patches just before the growth starts in the spring. The second application should be made ten days or two weeks after the first and the third about two State, where, at a moderate expense, a weeks after the second. If the orchard farmer could build a dam or scrape out or vines are badly infested a fourth ap-

Secretary Coburn's Great Books.

SWINE HUSBANDRY.

A practical manual for the breeding, rearing, and management of swine with a chapter on swine diseases and their remedies.

A Book Without a Rival. The Standard Authority. Cloth Bound, Postpaid \$1.50.

. ALFALFA.

Practical information on the production, qualities, worth, and uses of Alfalfa in the United States and Canada. No single crop has so much interest and value for the Kansas farmer.

Worth Many Times Its Cost. Cloth Bound, Postpaid 50 Cents.

THE KANSAS PARMER has made special arrangements to furnish these books to its readers. Write direct to this office and we will prepay the postage for you. Cash in advance. <u>ቀውም የተመለከተ መመመመመመመመመው የመመስ የመመመመመመመመመመመመመመመው የመመስ</u>

weeks after the third. If an application is followed immediately by a hard rain the application should be repeated as soon as possible. If this plan is fol-lowed and the work well done with properly prepared mixtures there will seldom be any need of further attention in this direction during the season. The solutions used in these sprayings should be a combined fungicide and insecticide, preferably Bordeaux mixture and Paris green. If the above directions are followed they will meet the requirements for preventing about 90 per cent of the common tungus diseases and insect pests. There have been a great many spraying calendars pub-lished giving long lists of diseases and insects with specific directions for preventing each one. A careful examination of these calendars shows that a large majority of the treatments recommended are covered by those given

PREPARATIONS.

The Bordeaux and Paris green mixture is prepared as follows: Dissolve 4 pounds of copper sulphate (blue vit-rol) in 2 or 3 gallons of water by placing the sulphate in a sack and suspending in the top of a jar or tub of water. Do not put this in tin or iron vessels as it will rapidly dissolve them. Before mixing dilute this to about 20 gallons. Slake 4 pounds of fresh lime by adding a small amount of water and after slaking is finished add about 20 gallons of Stir the lime and water thoroughly and strain before mixing. Pour these two solutions into the barrel or tank at the some time and stir vigorously while mixing. This may be diluted to 50 gallons and is the Bordeaux mixture. Make about one-fourth of a pound of Paris green into a thick paste with water and then add it to the Bordeaux mixture and stir thoroughly and the mixture is ready for use.

Suggestions to the Kansas Legislature.

EDITOR KANSAS FARMER:—Kansas contains just 107 counties. There is probably an average of ten townships to a county, and eight or ten school districts to a township, making 107 counties, 1070 townships and say 10,000 school districts in the State. She has one of the best State Agricultural Colleges, and the best State Board of Agriculture of any of the States. Her colleges and agricultural experiment stations, are doing as much for the education and benefit of her farmers, as those of any State. Her Agricultural College will soon be able to turn out a thousand graduates in a single year, men and women who are equipped with the most scientific discoveries and developments, for the benefit of the farming interests, both in the kitchen and in the field. Now, why not have one of the graduates of the State association as a superintendent of agricuiture in every county in the State, one in every township as a township superintendent, and one as a superintendent of agriculture in every school district. Let each of these superintendents have an experimental farm in the district he superintendes. These experiment stations should all be equipped with apparatus for taking the temperature of the atmosphere, four or more times in each twenty-four hours, the rainfall, the changes and velocity of the wind, so that the superintendent in each school district can keep the farmers posted as to everything going on in the State that it is for their interest to know. By an analysis of the different soils in the every township as a township superinan analysis of the different soils in the school districts, a record of the at-mospheric changes, the rainfall, and a statement of the different systems of farming, it would soon be learned what was best suited to each farm in the State.

Another matter of interest. There are elevations on every farm in the State, where, at a moderate expense, a a place, varying in size, for a pond of

surplus water could be stored, which if not suitable for irrigating the soil, would, by evaporation, saturate the at-mosphere with moisture, which would greatly increase the rainfall.

Again, let every farmer in the State set out forest trees about these points and wherever they can to shade the ground and prevent or check the high and hot winds, and in this way conserve and greatly increase the growth of vegetation. By such cooperation, we could, in a few years, make Kansas a verita-ble forest of trees, lakes, orchards, and gardens. This suggestion put in operation, together with Campbell's system of cultivating the soil, would develop the most practical system of irrigation and profitable farming of any country in the world. On my ranch at Medicine Lodge, I would like to start a township or a county experiment station of that (DR.) E. P. MILLER. Medicine Lodge, Barber County.

Oil Cure for Cancer.

Dr. D. M. Bye Co., the eminent Caucer Specialists, have cured hundreds of cases with their wonderful Combina-tion of Oils, originated and perfected by them. It is no experiment, but the result of 30 years' experience. Now in successful use eight years. Convincing evidence set forth in their new book which can be had for the asking. Address Drawer 505, Indianapolis, Ind.

Deafness Can Not Be Cured

By local applications, as they can not reach the diseased portion of the ear. There is only one way to cure Deafness, and that is by constitutional remedies. Deafness is caused by an inflamed condition of the mucous lining of the Eustachian Tube. When this tube gets inflamed you have a rumbling sound or imperfect hearing, and when it is entirely closed Deafness is the result, and unless the inflammation can be taken out and this tube restored to its normal condition, hearing will be destroyed forever; nine cases out of ten are caused by catarrh, which is nothing but an inflamed condition of the mucous surfaces. We will give One Hundred Dollars for any case of Deafness (caused by catarrh that can not be cured by Hall's Catarrh Cure. Send for circulars, free.

F. J. CHENEY & CO., Toledo, O. Sold by Druggists, 75c. Hail's Family Pills are the best.

Advertising Facts.

A little booklet has come to hand which is one of the handsomest things of its kind ever published, showing reproductions both in black and white and colors, of advertising placed by Lord & Thomas, the famous advertising agency of Chicago, for their various clients, many or whose products have become household necessities throughout the country. The booklet is of particular interest because of the character of the work shown, and will prove of great interest to anyone who advertises, but by far more interesting and startling are letters given therein from each of the Chicago papers, showing that the Lord & Thomas Agency placed more advertising in their own city than any other firm. The remarkable growth of this house is the greatest testimonial yet given advanced advertising methods.

New Use for Refined Paraffine Wax.

Getting Double Profit.

Are you getting double profit from your corn crop? With the increasing demand for fat cattle, it behooves every corn-grower to utilize the entire crop, ears, stalks, and all. Shredded fodder is an excellent feed for cattle, and is in high favor wherever tried. On page 966 of this issue we show a farmer who is getting double profit from his corn crop, and readers of Kansas Farmer should write for "King Corn," a profusely illustrated booklet which contains full particulars as to the best methods of securing double profit from the corn crop.

WEEKLY WEATHER CROP BULLE-TIN.

Weekly weather crop bulletin for the Kansas Weather Service, for the week ending September 30, 1902, prepared by T. B. Jennings, Section Director:

GENERAL CONDITIONS.

The week has been slightly cool for the season, but without any frosts, except on the 27th when a light frost occurred in some of the western counties and a heavy frost in Thomas, but no damage. The week was wet, heavy rains falling all over the State, except in the extreme southwestern counties, and very heavy rains in the northern half of the State, the rainfall in the northwestern counties ranging from five to eight inches. RESULTS.

EASTERN DIVISION.

EASTERN DIVISION.

Corn needs dry weather; it is being damaged some in the shock by continued wet weather in several counties; husking is progressing in many central and southern counties, where not too wet, but the corn is still too green in the northern counties to crib. Wheat-sowing has been stopped by the wet weather; early sown wheat is up in all parts of the division. Apple picking has begun, and a good crop of fine quality is being gathered. But little hay was cut this week; a large crop is already in the stack, but much remains uncut vet owing to the wet weather. The last crop of alfalfa is being cut in Chase; the rains have damaged much alfalfa in Chautauqua and the late sown in Shawneo. Though the potatoes are rotting on low ground in Johnson, they are turning out a good crop of fine quality in Marshall, Morris, and Shawnee. Early Kaffir corn is being cut in Woodson, but cutting was stopped in Elk by rain. Rye is up in Jeferson. Ground is too wet for plowing. Anderson County.—Wet cloudy week; about two weeks dry weather needed before wheat land can be prepared for seeding.

fore wheat land can be prepared for seeding.

Bourbon.—Wheat seeding greatly delayed by wet weather; small damage to corn by cars rotting at the boot.

Chase.—Heavy rain damage corn fodder, Kaffir corn, cane, and other feed ready to cut; alfalfa in stack injured; last crop alfalfa being cut; feeding commenced; wheat seeded before rains coming up nicely, but too wet for seeding now.

latter part of week; some threshing to do delayed.

Russell.—Farm work at a standstill; wheat sowing greatly delayed, being scarcely begun yet.

Saline.—Farm work seriously delayed.

Smith.—River very high; much damage done to crops on low bottom lands; seeding delayed.

Stafford.—Ground in good condition for seeding; early sown wheat making good growth.

was delayed by the rains the first days of the week; the early sown is up in many counties. The third crop of alfalfa is being cut in Republic; there is considerable still to cut in Clay, while in McPherson some of it was damaged. Apples are a light crop but of fine quality in Cowley; in some orchards in Reno they are a good crop, in others light. Haying is not finished, and in some counties much has been injured. The ground is in fine condition, though too wet in the central and northern counties for plowing. A large part of the forage crops is still too green. Pastures are good. Barton.—Ground in fine condition.

Clay.—Seeding and threshing again delayed by rain; some plowing yet to be done; all fall work much delayed; haying not completed, and considerable alfalfa, cane, and Kaffir corn still in field.

Cloud.—Wet weather delayed seeding and damaged some hay, seeding again in progress, about half sown and coming up with a fine stand; ground in excellent condition.

Cowley.—Wheat sowing stopped and

camaged some hay, seeding again in progress, about half sown and coming up with a fine stand; ground in excellent condition.

Cowley.—Wheat sowing stopped and much hay spoiled; apple crop though light is fine quality;

Harper.—Wheat sowing in full progress, except in south portion of county, good stand of early sown coming up; corn a good crop and quality good.

Kingman.—Rains have put ground in fine condition for wheat, and much being sown; haying about finished; haying in many instances somewhat lighter than anticipated. Lincoln.—No farm work being done, and farmers much behind with fall work.

McPherson.—Seeding delayed and threshing stopped; some alfalfa damaged.

Phillips.—Large acreage of fall grain sown and being sown, with ground in fine condition; threshing delayed.

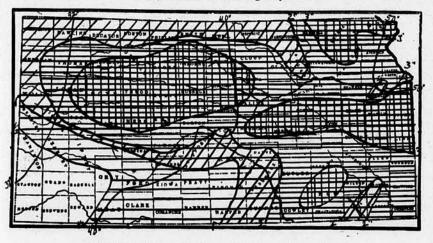
Reno.—Wheat sowing progressing rapidly with ground in good condition, first sowing coming up well; apples a good crop in some orchards, in others very light.

Republic.—Wheat sowing and threshing delayed; third crop of alfalfa being cut.

Rice.—Wheat germinating nicely, sowing continued, with ground in good condition latter part of week; some threshing to do yet.

Russell.—Farm work at a standstill; wheat sowing and with ground and works.

Rainfall for Week Ending Sept. 27.



Minimum for week shown by temperature lines.

SCALE IN INCHES.



Less than 1/2. 1/2 to 1.







Chautauqua.—Little wheat sowed, and ground too wet for sowing; corn being shocked, when weather permits; great loss on last crop alfalfa.

Cherokee.—No farming or haying during week; considerable hav uncut yet; part of wheat sown and up.

Coffey.—Hay sponing in stack, and corn in shock being damaged where it does not stand well; wheat sowing delayed almost a month.

Douglas.—Good apple crop; corn husking in progress.

in progress.
Elk.—Rain stopped cutting of Kaffir

Elk.—Rain stopped cutting of Kaffir corn.

Franklin.—Too wet to thresh, plow, or do any work in fields; corn needs dry weather.

Jackson.—Rains stopped wheat sowing; some corn in shock getting very black; fodder damaged.

Jefferson.—Work on cane progressing slowly; rve and wheat up and look well; very little corn being cut; pastures fine and stock in good condition; apples fine.

Johnson.—Farm work stopped by rain; about one-half of wheat sown; potatoes rotting on low ground, very few dug; all crops safe from frost.

Leavenworth.—No farm work; stock looking well; pastures good.

Linn.—Ground too wet for plowing or seeding, and very little wheat sown to date.

Marshall —Ground fine for plowing and

date.

Marshall.—Ground fine for plowing and seeding, and a large acreage of wheat sown, that up in fine condition: fall sown grass coming up nicely; a fine crop of corn; potatoes a good crop of excellent quality.

quality.

Montgomery.—Week wet and unfavorable for farm work; shocked corn and hay in stack damaged.

Morris.—Not much work done; ground about ready for wheat; cattle still doing linely on grass; corn dry enough for cribbing, except for rain; potatoes extra quality and quantity.

bing, except for rain; potatoes extra quaity and quantity.
Shawnee.—Heavy rain damaged some hay and lately sown alfalfa; little haying during week; some corn yet to be cut on uplands, apple picking will commence soon.
Woodson.—Haying delayed another week; considerable cane damaged by rain; early Kaffir corn being cut, some just heading, other fields have not begun to head; pastures good and stock doing well; very little wheat sown yet.

MIDDLE DIVISION.

MIDDLE DIVISION.

Corn is being gathered in many southern fields, too wet in the northern; the crop generally is very good, though in Kingman it is lighter than expected. Wheat seeding



The Old Reliable Anti-Friction Four-Burr Mogul Mills

Manufactured and sold by the IOWA GRINDER and STEAMER WORKS, Waterlee, and sold by the

THE MARKETS.

Frasius' Market Review.

The Market Review.

Topeka, Kans., September 29, 1902. The long-expected large movement of spring wheat, has finally set in, and for the last week the receipts of wheat in the northwest have equalled those of last year. Minneapolis and Duluth are now receiving an average of about a thousand cars per day. Exports, however, are still large, notwithstanding the oft-repeated assertion that European crops are good, and foreigners will not have to buy much wheat. Last week, for the first time this fall, the increase in the visible supply has been very large. This increase was 2,300,000 bushels, and the visible supply is now up to 25,000,000 bushels. How long this big wheat movement will last is hard to forecast, at this time. Grain buying throughout the Northwest is conducted by a few large firms, and mills at Minneapolis and Duluth, who control thousands of country elevators throughout the Northwestern States. It is hinted that these firms have ordered an unsually large amount of wheat forward, out of their country elevators, to break the price. Every reader knows that the supply—for there has been plenty of grain to go around in the past—has nothing to do with the price of grain, which for a year has been effected by one manipulation after another. Just now, September wheat is undergoing the manipulating process. The September wheat or No. 2 red winter wheat, and as there is but a small supply of this grade of wheat can be bought for December delivery at 63%c. This means No. 1 Northern spring wheat or No. 2 red winter wheat, and as there is but a small supply of this grade of wheat evaluation, and will no doubt break several not have, are "getting it in the neck." To-morrow being the last day, when the September option expires, these short sellers must settle their contracts, and after that is done, contract wheat will be lowered a good many notches. Therefore, it will be difficult to foretell what wheat will be worth the middle of the week. Corn is undergoing the same process of manipulations after to-morrow. We b

Kansas City Live Stock Markets.

winter wheat, \$3½,689c; No. 2 corn, \$4c; No. 2 oats, \$302dc.

Kansas City Live Stock Markets.

Kansas City Mo., September 29, 1992.

Kansas City Mo., September 29, 1992.

Kansas City Mo., September 29, 1992.

WeSTERN DIVISION.

WeSTERN DIVISION.

West even in the southern of the province of the provin

bargains, for prices of stockers are at the low point of the year.

Horse and mule receipts were in excess of 1,500 head. There was a decided improvement in the movement of horses, sellers having less difficulty in securing steady prices, than during the previous week. United States cavalry horses, 15.3 to 16.1 hands in height are still in demand. Mules were sluggish and generally weak. Good thin stock 14 to 15 hands high is wanted for cotton-feeders, bringing from \$75@110. All fat mules will fetch their value, but off-grade thin animals are slow of movement.

Poultry growers should congratulate themselves upon prices that and birds are bringing at the markets. Fresh Missouri and Kansas eggs are firm sellers, and worth 17½c at present, selling strong during the past week. Poultry values held firm. Springs are quoted at 10½c; brollers at 11½c; hens slightly weaker at 9c; turkey hens 11c, gobblers, 10c; ducks, 7½@0c; geese 4c.

St. Josept Live Stack Markets.

St. Josept Live Stock Markets.

St. Josept Live Stock Markets.

South St. Joseph, Mo., September 29, 1902.

Good to choice corn beeves and good, fleshy Westerns, were in the usual light proportion last week, while the demand was good and prices were well maintained. On the other hand, low-grade natives and light Westerns, met with a duli market and values declined 10@15c. Cows and heifers were in heavy quota with Western and Texas cows in the majority. While the demand ruled strong, prices lost 15@25c. Although the movement of stockers and feeders to the country was the heaviest in the history of the yards, receipts were too heavy and the general market was 25@35c lower, except on good heavy natives and dehorned Western feeders.

heavy natives and dehorned Western feeders.

The quarantine market was fairly well supplied with steers greatly in the majority. The demand was strong, and prices showed no change. Cows and heifers sold steady under a light number and good request. Bulls and calves sold steadily on a firm basis.

Under very light marketing of hogs, and a good turn in the provision trade, prices made some good advances early in the week, but conditions changed for the worst on the following days and the above advances were dissipated. The usual number of rough packing sows were included, and finished barrows were in light quota, and commanded a premium owing to the scarcity. Prices to-day ranged from \$7.374. (37.50 with the bulk selling at \$7.4067.45. Under a reduced marketing of sheep, there was good tone to the market, and buyers sharply competed for supplies, which resulted in good to choice lambs, and yearlings gaining 10@lic; but other kinds showed no material change. Natives were in better supply than of late, but Westerns made up a heavy proportion of the receipts.

Ambitious young men by the thousand are renting farms with the aim to enter the owner class. Proof of this is found in the fact that of all the farm workers under twenty-five years of age only 2.1 per cent. own the farms upon which they work, while of those above sixty-five years old who work on farms, 80.4 per cent. own their property. Another way of stating the same general fact is that 67.3 per cent. of all the tenant class are under forty-five years of age, and 42.4 per cent. are under thirty-five.—Mahin's Magazine, October.



Oak Stove Offered to Our Readers by the Empire Stove Mfg. Co., of Minneapolis, Minn., whose advertisement appears on page 979.

the

spe

COL

cer

ter

that V-s



In the Dairy.

Conducted by D. H. Otls, Professor of Dairy Husbandry, Kansas Experiment Station, Manhattan, Kans., to whom all correspondence with this department should be addressed.

Shall Dairymen Raise Heifers? J. W. WHITE.

To those engaged in dairying, the question of raising the heifer calf often presents itself, and is often decided to the detriment to the dairy interests. Some contend that they have enough to do without bothering with the calves, and either dispose of them immediately, or keep them just long enough to return a small sum when sold for veal. Others claim that they can purchase milch cows for less money than it costs to rear their own calves to a profitable age.

The profitable cow must be of a dairy type, or a near approach to it, and to secure such an animal, it is necessary to use a sire of known dairy ancestry, followed by a careful selection of helfers of his get from the best cows in

the herd.

Another very desirable quality of a dairy cow is a gentle disposition and ease of handling, which can be best secured through hand rearing accomplished by kind treatment at all times, and it is the skim-milk calf on the dairy farm that is most apt to receive such

It is a well established fact that the milk producing capacity of a cow, depends upon the care and feed she has received during her early life. To develop capacity the young animal should not be fed too much fat-forming food, but should rather be provided with such material as will develop good constitution accomplished with a large digestive system. These qualities can best be developed at the dairy farm, where skimmilk furnishes a cheap and desirable feed to use in the early stages of the process, to be followed by such other feeds as the dairyman has found to be most valuable for his older animals.

The hard-working dairyman might well stop and consider if it is not better to keep less cows and devote more time to the rearing of his choicest heifers upon the skim-milk and other cheap foods that tend to develop a more desirable cow for his future use.

The question of the cost of rearing a heifer to a profitable period, as compared with the price paid for a cow of same age and quality has not received as much astention at the importance of the subject merits. Data are given in Hoard's Dairyman, of May 1, 1896, upon the cost of keeping a heifer to the age of two and a half years at which time she would be expected to be producing enough to pay for her expenses, and perhaps be returning some profits. It is based upon the value of food consumed, and at prices then prevailing in the Eastern states, it would cost \$25.00 to raise a dairy type heifer to the productive age, which was assumed to be at two and a half years. But as all feeds are higher there than in the west, it is safe to estimate the cost in ordinary years to be about \$20.00. Many dairymen aim to have the cow drop her first caif at two years, so the cost up to a productive age might be a little less than \$20.00.

It is not often possible to buy a good young cow for \$20.00, so the item of cost is in favor of the home-reared calf; while the profitable returns are still more favorable for the home-grown cow as she is accustomed to her surroundings, and will not be so liable to injury from the changes that are necessary

in the case of the purchased one.

It is evident that if we have a herd of good dairy animals, the cheapest and surest method of keeping up quality, is to rear the best heifer calves to take the place of those cows that from time to time are obliged to retire from active

service, while if our purpose is to build up a good-dairy from common cows, the only possible method that will be a success is to raise the selected heifers from the best cows bred to a dairy sire.

Cleanliness in Milking.

In his dealings with his tools, his sheep, his horses, and himself, the farmer is usually careful in respect to cleanmess. He cleans up his tools as a matter of habit. He allows the sheep to follow the inbred laws of cleanliness. He curries his horses, and regularly cleans out their stalls. He washes his own hands as far as the wristband, and his face and neck as far down as the collar button.

When he comes to milk the cows and feed the hogs and the poultry, it is lamentably different. This is sad; for it is known that disease germs revel in

If you have been an observer, you have seen him sit down to milk, and spend several minutes in picking off dried scales of filth from the teats and udder, so that he could get a "clean hold." When the filth is not yet fully dry it becomes necessary for him to wipe the udder dry with a wisp of hay. The result of this performance may be seen by looking into the strainer after the milk has passed through it. Now and then you will find a man who has climbed up the ladder of civilization a few steps, and who, going into his dairy barn in the morning when the very air is reeking with the steamy codors of the filth in the gutter behind the cows, steps carefully over and washes the udder of the cow with water that he has brought in the milk pail. After this he drains into the gutter, among the other liquids, whatever water may have been left over or dripped back from the washing process. Then he milks, and the creamy whiteness of the foam in the pail is accentuated by the greenish drops that exude from the interstices between his fingers, and drop, one by one, into the foaming milk pail.

Were he more civilized he would first remove all the droppings from the udder and wheel it away to the compost heap, far out into the barn yard; and, then, before beginning to milk, wash the udder and dry it with a clean cloth. The next step it to turn the hose on the cement floor of the gutter and wash away all the filth remaining, and all the smell of it.

Does some one suggest that country barn-yards and cow-lots have no such fixture? Probably they do not, but the chances are that they have acres of clean grassy sod, where the cows can be milked without the necessity of "cleaning up." The aeration of the milk, which follows, which must follow will then be of more service: for the "cowey" smell of the milk can then have room to blow away.

Having safely come so far, that part

of the milk to be sold is in fairly good shape, if it not kept in cans too tightly closed before it reaches the customers. That portion intended for the use of the family is still in danger of being mis-treated: for the ignorant farm hand may take it down in some cellar that is poorly ventilated and set it down in uncovered pans where the smells coming from rotting cabbage and turnips will seek for a hiding place in the very best absorbant to be found. As an absorbant, a pile of damp corn cobs is not half so efficient as good, sweet, fresh milk. Foul smells from decaying roots in the cellar are not intended to odorize milk. Their use in the work is to escape up the cellar stairs into the sitting room, the closely shut parlors, the dining room, and the bed rooms, so as to produce disease by "some mysterious dis-pensation of Providence."

To speak of cleanliness in the hog pen and the hen house would demand more space than is allowed for this article.—The Prairie Farmer.

Standard Milk and Cream.

SUMMARY OF BULLETIN NO. 74, FROM THE ILLINOIS AGRICULTURAL EXPERIMENT STATION.

Half of the milk produced in Illinols is sold by weight or measure without regard to its composition or food value.

Milk containing a high per cent of fat is not only worth more for food, but it costs more to produce than milk containing a low per cent of fat and its price should be governed by its food-values and not by its bulk.

By standard milk and cream is meant that which has been brought to a certain known composition thus establishing a true basis for valuation.

Nearly all milk used for direct consumption is sold by measure alone regardless of its food value.

Frequently one quart of milk contains twice the food value of another, yet both sell for the same price.

No other commodity is bought and sold with such disregard of its food value. All milk should be sold according to its composition, and milk intended for direct consumption should be standardized, not only that its exact composition may be known but also that definite commercial grades of milk may be established with corresponding values.

Since fat in milk is the most valuable constituent, the other solids remaining fairly constant, standardizing is a comparatively simple matter. All that is necessary is to add or remove a certain amount of butter fat.

A law requiring the standardization of milk and cream sold for direct consumption, would result in justice to both seller and buyer.

Such a system would be no more difficult to control than the present one of minimum limits.

Milk for direct consumption should not only have a standard of values but of cleanliness as well and should be produced under rigid inspection.

No subject is of more consequence to the people for the standard point of both economy and health, than that

DE LAVAL GREAM SEPARATORS

For twenty years the World's Standard

Send for free catalogue.

The De Lavai Separator Co., 74 Cortlandt St., N.Y.

milk should be produced under rigid inspection laws. Such a system would be of as much advantage to the better class of dairymen, as to the consumer.

Drying Off Cows.

s. m. tracy, in farmers' bulletin, no. 151.

The cow should "go dry" a month or six weeks before she is expected to calve. Some cows are such persistent milkers that it is impossible to dry them off; but such cases are rare, and can usually be prevented if the young cow has the right treatment after her first calf. If she does not show a strong inclination to go dry when within two months of the time she is expected to drop a calf, her feed should be made as light as will keep her in fair fiesh, she should be given little or no grain feed, and the milking should be done less thoroughly. Occasionally a cow will be found which will persist in giving milk through the entire gestation period, and in such cases the only thing to be done during the last month is to milk her sufficiently to prevent the udder from becoming caked or inflamed.

(Continued on page 979.)



Are you milking any cows?

Are you hauling milk to a skimming-station?

Are you making butter?

Are you patronizing a cheese factory?

Are you perfectly satisfied with your present market?

Did you get as much in August as we paid? Are you getting as much now as we pay? Do you want all you can get? Are you within 500 miles of St. Joe?

Are you hunting the best market in the West?

Write to the "Pioneers" of the system that pays the highest price

Blue Valley Creamery Co., st. Joseph, Mo.

WHY DO PROGRESSIVE DAIRYMEN BUY THE U.S. SEPARATOR?

Because they know that they will have one then that possesses more of the qualities that go to make up a perfect cream separator than any other make.

That the U. S. Skims Cleaner is an established fact, it having proved its superiority in this point at the Pan-American Model Dairy, where it made the World's Record of .0138 for an average of 50 consecutive runs, which has never been equalled by any other make of separator in the world. That the U. S. is more durable is being shown daily in dairies all over the country by those

who have used other makes, but who are now using the U.S.

That the U.S. is more simple is easily seen by everyone who has eyes.

That the U. S. is the safest, with its gears all enclosed, everyone can understand.

That the U. S. is easy to operate is testified to by its users.

For more reasons and copies of letters from hundreds of users certifying to the truth of the above statements, write for our special Dairy Separator catalogue.

***VERMONT FARM MACHINE CO., Bellows Falls, Vt.

The Poultry Hard.

Three Hundred Hens.

The pullets were pure line-bred, highclass Brown Leghorns, hatched during the last half of April, and selected Oc-tober 15 from about 600. First, all undersized and otherwise objectioable specimens were quickly discarded. Inen about 200 of the choicest, highest-scoring birds were picked out to reserve for breeding, exhibition and sale. Then 300 of the largest left, all choice, healthy, well-matured birds were healthy, well-matured birds were promptly dubbed of three-fourths of comb and wattles, a dash of alum water applied to prevent excessive bleeding and there was no loss. Next day they were put into their permanent homes in flocks of fifty each, with no males, and with free range; the houses were about forty rods agart, and placed by running water. An egg-stimulating diet was started as soon as combs were fully healed, and by November 1, plenty of eggs were coming in. The actual cost to this point was, probably not over forty cents per head, but as they possessed a selling value of fety contraction. sessed a selling value of fifty cents each, I have figured them so in the account of this lot, November 1. From inat date, all eggs, were credited at actual price received, which was five cents more than market quotations, and food charged at cost.

WINTER QUARTERS.

On the first fall of snow, after the ground was frozen, the houses were drawn to winter quarters, a warm shel-tered location between hills, and were placed not more than two rods from each other, facing the South as before. Six inches of dry gravel was then put in the floor of each house, which was rather small for fifty fowls, and would hardly do for larger breeds, being only ten by fifteen feet; but all of it was clear for scratching, and the fowls were allowed to go out all winter on mild days whenever there was bare ground.

WINTER FEEDING.

From December 1 to March 15, the very first thing done for the hens in the morning was, before daylight, after the fire was started under the cooker, to give them an eight-quart pail of mixed grains, such as the coarse part of sifted cracked corn, wheat, buckwheat, oats and barley, which was scattered into the straw and chaff which covered the floors on top of the gravel. Immediately after this the drinking founts were partly filled with warm water, using two pailfuls in all. All this took but about twenty minutes and the man at-tended to the fire as well. We considered this a very important part of the care, as it brought the hens into exercise as soon as they came off the roosts, instead of moping around, cold and hungry, while waiting for a warm breakfast, and gorging themselves with the same; then drinking excessively as is always the case when the hot mash is the first thing given. They will scratch vigorously for the meager morning allowance, drink and scratch again, until the last kernel has been found. Meantime the hot mash is being properly prepared, and the attendant has his own breakfast. The regular morning mash consists of mixed ground grains of all kinds fed to poultry, and cooked vegetables of some kind. There was no fixed rule, but varied so that no consecutive meals were exactly alike, except in the matter of potatoes, which were always our staple. We used the small ones, which ranged in price from ifteen to twenty-five cents per bushel, always washed clean and boiled or steamed until just done, then immediately mashed, adding at the same time the grains which were previously mixed, salted and peppered, and meat scrap; egg food, sulphur, etc., added as being fed at the time. We used sulphur once in two weeks, three pounds for 300 hens; cayenne pepper daily, which we mornings when fresh beef was fed, which was twice a week.

THE MIXING.

As potatoes are mashed, which is best done in a long box with a hoe, add just what grain the steam and moisture will wet up, and when through, leave in one end of box covered over about half an hour. The grain will cook and swell some in that time, and a small amount of bran or meal will be needed to bring to the crumbly, dry state desirable for feeding, and should be added only as fast as used. We never feed quite all that would be eaten, and gave it in V-shaped troughs on the floor, and they were hung upon nails on the sides of the houses after using. Twice a week, for all our laying stock, beef heads

boiled until the meat fell off from bones, and meat and liquor well mixed in were added to our mash. We also added chopped onions often, and skim-milk nearly every two days, though we fed the latter mostly to our growing stock, not having all we wanted to go around. There is no stock that pays better than poultry to feed milk to poultry to feed milk to.

GREEN FOOD.

The next thing done was to give the daily allowance of green food, usually two or three small loose cabbages to each house, suspended about two feet from the floor. A light sprinkling of plaster was put over droppings on platform, under roosts which were cleaned off entirely once a week, and kerosene oil poured over roosts and bearings, the roosts inverted. Old litter on floor was removed weekly, and replaced by fresh about six inches deep, small amounts of chaff, however, being put in nearly every two days, and one bushel of fresh gravel dumped on each floor weekly. Oyster shell, grit, and crushed bone were kept constantly in a box on the side wall. The hens found all the dust-ing places they wanted in the corners and all along the sides. At noon, drinking founts were replenished with warm water, and mixed whole small grains scattered into litter all over floor. A roosting time, what whole corn would be readily eaten was given in the troughs, and eggs were gathered, drinking founts emptied, and shutters closed. We did not have a sick or drooping hen in this lot, even with the high-feed eggforcing, but that was due to strong, perfectly healthy stock, and cleanliness in keeping, as well as preventive measures taken. Douglas Mixture, as well as asafetida, was often used in the drinking water, and the food was all good. The pullets in coming to winter quarters were nearly all laying, and were kept at it through the cold weather by the exercise and internal heat with stimulating as well as nutricious, egg-making diet. No artificial heat was used, but plenty of sunlight through the glass in south side of houses; they were kept warm at night, also, by closed shutters over all glass and door, and also closed ventilators in severe weather.

TO THE RANGE AGAIN.

Early in March, the houses were placed far apart again, by running water and free range. Being non-sitters, the hens laid quite well all through spring and summer, getting insect food after May 1, and by August being about ready to let up for a rest and early moult. We quickly fattened and dressed them, having young stock that needed the quarters, and not considering these birds so forced desirable to keep longer. They had given us an average of 186 eggs each in nine months, and probably would not have run it up to more than 220 at best in the next three months. They came to the block in good time for mountain hotel trade, and were really as good as spring chickens, being plump and ten-der, three and one-half rounds each, and brought us eighteen cents per pound.

COST AND RETURNS.

So we have the following summary statement:

\$1,491

Cr. By 186 eggs, 15½ doz. per hen, average price, 28c, \$4.34 per hen, 300 hens.....\$1,302 By 1,050 lbs. poultry dressed at 18c..... 189

Average profit per hen 94 months, \$2,33 1-3. No credit was given for droppings worth, probably, twenty-five cents per hen, but they are considered as an offset against our personal supervision of care, etc. The same man worked fif-teen years for us at fifteen dollars per month and board. The time he used bought in bulk at thirty-eight cents per on the 300 represented only about one-pound pure; beef scraps quite freely, say twelve quarts for 300 hens, except on day more than covers that item. I do not consider \$2.33 per hen by any means the limit of profit, as much better may be done with smaller flocks, I having once cleared over fifty dollars on twelve Light Brahmas in twelve months, by raising only two broods of chicks, and much better still with five Langshans.—Vick's Family Magazine.

\$23.30 Chicago to New York and Return

via Nickel Plate Road, on October 3, 4, 5, and 6, with return limit leaving New York October 14, 1902. Three trains daily, at convenient hours. Vestibuled sleeping cars. American Club Meals, ranging in price from 35 cents to \$1.00, served in dining-cars on Nickel Plate Road; also meals a la carte. Chicago depot, Harrison St. and 5th Ave. City Ticket Office 111 Adams St. 'Phone Central 2057. Write John Y. Calahan, General Agent, 113 Adams St., Chicago, for particulars. (No. 51)



The Milkman, Marketman,

and other people who drive early in the morning or late at night, need a good and reliable light. For this purpose nothing equals our

Blizzard (Nos. 1 & 2) DASH LAMP.

Clasps dash with a strong spring. No. 1 has our special buil's eye lens on perforated plate—drives the brilliant white light away ahead of the horses and gives the driver a good view of the road and any impending danger. Has an oil pot holding enough to burn 14% hours. Can be used as a hand or hanging lantern or shelf light. Like all "Dietz" Lanterns it is the best of its kind obtainable. Ask your dealer for them. Write for free catalog. R. E. DIETZ COMPANY, 95 Laight St., New York.

Established 1840.

POULTRY BREEDERS' DIRECTORY.

PURE Single Comb Brown Leghorn cockerels, 75 cents each, or 7 for \$4, f. o b, here. F. P. Flower, Wakefield, Kans.

ROSE COMB WHITE LEGHORNS—Fine cocker-els for sale. Emboden geese for sale—\$5 per trio. Mrs. Winnie Chambers, Onaga, Kans.

W. B WILLIAMS Stella Neb.,

Breeder of

Rough Coated Scotch Collies and Barred Plymouth Rock fowls of the highest standard attained. Fine pups for sale.



Barred Plymouth
Rocks, White Plymouth Rocks, Buffer
Cochins, Light Brahmas, Black Langshans, Silver Wyandottes, White Wyandottes, White Wyandottes, Silver Spangled Hamburgs, Brown Leghorns, and Belgian Hares. First-class Standard Stock of Superior Quality. Stock For Sale. Eggs in Season. Write Your Wants. Circular Free.





Century Steel Range, No. 80-A-18

Century Steel Range, No. 80-A-18

Has six 8-inch lids, oven 17x21x12, splendid reservoir and warming closet, lined throughout with asbestos, burns anything, best bakers and roasters on Earth. Guaranteed 10 years. Weight 475 lbs. Only \$22.90. Terms \$8.00 cash, balance payable \$3.00 a month, no interest. Shipped immediately on receipt of \$8.00 cash payment. We trust honest people located in all parts of the World. Cash discount \$1.50 on Bange. Freight averages \$1.25 for each 600 miles. Send for free catalogue, but this is the greatest bargain ever offered. We refer to Southern Illinois National Bank.

CENTURY - MANUFACTURING - CO. Dept. 73 K East St. Louis, 112

FREE ELECTRIC BELT OFFER



HRIDELEERG ALTERNATING CURRENT ELECTRIC BELIEVE OF ANY reader of this paper. No money in advance; very low cost; positive guarantee. COSTS ALMOST NOTHING compared with most all other reatments. Cures when all other electric believes the compared with the compared with most all other reatments. Only SURE CURE for all nervous diseases, weaknesses and disorders. For complete sealed confidential catalogue, cut this ad. out and mail to us. SEARS, ROEBUCK & CO., CHICACO.



NEW FAST TRAIN

Between St. Louis and Kansas City and

OKLAHOMA CITY. WICHITA, DENISON DALLAS, **FORT WORTH**

And principal points in Texas and the Southwest. This train is new throughout and is made up of the finest equipment, provided with electric lights and all other modern traveling conveniences. It runs via our now completed

Red River Division.

Every appliance known to modern car building and railroading has been employed in the make-up of this service, including

Café Observation Cars,

under the management of Fred. Harvey Full information as to rates and all details of a trip via this new route will be cheerfully furnished, upon application, by any repre-sentative of the



COOL COLORADO THE PLACE TO GO.

Think of a round-trip rate of only

\$15.00

To Denver, Colorado Springs (Manitou), and Pueblo.

On certain days in June, July, August, and September, via the



Write for books entitled

"CAMPING IN COLORADO," "FISHING IN COLORADO,"

"UNDER THE TURQUOISE SKY." The Camping book tells how, where, and at what cost parties of two, four, and six can enjoy an inexpensive vacation in that delightful climate.

E. W THOMPSON, A. G. P. A., Topeka, Kans. JNO. SEBASTIAN. G. P. A., Chicago.

START SOMETHING.

A Printing business, for instance, Our \$5 press prints Cards, Envelopes, etc. Other sizes and prices. Easy to set type; full instructions. Bend stamp for catalogue of presses, supplies and novelties and learn how to MAKE SOME EASY MONEY, MIDLAND SPEGIALTY CO., 911 Charlote St., Kansas City, Mo.



Brange Department.

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

Conducted by E. W. Westgate, Master Kansas State Grange, Manhattan, Kans., te whom all correspondence for this department should be addressed. News from Kansas Granges is especially solicited.

NATIONAL GRANGE.

Master......Aaron Jones, South Bend, Ind Lecturer......N. J. Bachelder, Concord, N. H Secretary...John Trimble, 514 F St., Washington, D. C

KANSAS STATE GRANGE.

Master. E. W. Westgate, Manhattan
Lecturer. A. P. Reardon, McLouth
Becretary. Geo, Black, Olathe

The Grange Press.

Albert M. Cornell, lecturer of the Pennsylvania State Grange, in an article published in the Farmers' Friend urges that the Grange press be not neg-lected. In part he says: "It is pleas-ing to read of those things one is interested in, and by reading of such often one becomes more interested, as they come to have more knowledge of such subjects, as are especially adapted to their desires, so it becomes apparent that one should strive to select such topics to inform and interest themselves in as may be of greater usefulness to themselves and those with whom they may associate, therefore it importance the is at once seen the importance the Grange press is to not only the individual Patron, but to the general welfare and progress of the order.

"Some one has recently said: 'Reading makes a full man, writing an accu rate man, and speaking a ready man.'
These are three essential points that
the Grange is so well qualified to develop among our people, and the second and third are two that farmers in the past have been deficient in and doubtless is one of the causes why those of other callings have been more largely called or chosen to fill public positions of trust.

"A store house may be filled with treasure, and so long as the key is turned it is of no benefit, but loose the lock and make the contents available then results appear, thus with the mind, ever fill it full of good and valmind, ever fill it full of good and var-uable matter, then make it available and not like the store house, but the more that is given unto others the greater the amount retained.

"It is the intention at this time to

call attention of all fellow State officers to what we believe to be of impor-tance for the 'good of the order,' namely: Strive to do more for the Grange

"You have all attended those good Grange meetings where the work all seemed to move on not in a set, mechanical way, but seemed to flow as it were, from the hearts of the members, come spontaneous without special effort. So let the communications come to the Grange press that we all may have one of those good meetings each week 'on paper.'

"Kindly consider this a personal invitation from the lecturer to contribute a few of your good thoughts for publication for the 'good of the rder' at least once a month.

"Let us make the Grange press what it should be and all will move on to a greater degree of success than now exgreater degree of success than now exists. It can be done easily, but not by one nor by every one waiting for the other to act first, but by all acting in concert. That word 'all' is a very important 'quantity' in matters pertaining to cooperation, in all the various forms we find the principles at work at the present time and what our people have suffered that we could not have learned more of its value years ago and only now we can catch but a slight beam of light as compared to the bright radiance of the future, that may yet be brought about through ization, education, and coopera-

tion.
"Do not neglect the Grange press."

How to Make Literature Most Effective in the Grange.

Literature is the record of intellectual achievements and includes all human knowledge unless it be the exact sciences. The world's storehouse of thought and knowledge is freely open to every human being whom the Creator has endowed with mental capacity. Experience proves, however, that in order that literature may be made effective in the Grange, or anywhere else, it must be pursued along well-defined lines and according to some well-devised system.

To read or study loosely, or in a general way, will always result in small profit as compared with what is possible. The world is full of books, and

life is too short to permit one to read any considerable part of them.
The primary injunction of the Grange

is towards concentrated effort, and nowhere is this feature of our order mornecessary than in the field of literature Wise choice is, therefore, of first importance. The degree to which literature may be made effective in the Grange depends in large measure upon the lecturer, not only upon his culture, but upon his tact as well. The office of grange lecturer is not a sinecure. The lecturer should study his flock, become acquainted with their tastes and meas-

ure the ability of each member.

In many of our subordinate granges are college-bred men and women, in a larger number are men and women who have had superior advantages; these should in all cases be drafted for the position of lecturer. These have been over the road and are supposed to have found the key to a successful quest in

the field of literature.

"The destruction of the poor is their poverty," tnd "to him that hath shall be given," is applicable in this connection. tion. The first requisite in a search for knowledge, is a knowledge of the sources of information.

It is not only the province, but the duty of the lecturer in the assignment duty of the lecturer in the assignment of work or topics, to suggest the literature bearing on that topic. The sun's rays diffused over the earth create warmth and light, but the same rays focalized by the aid of a sun glass and directed steadily upon a given point results in fire, so to wander aimlessly in the field of literature may prove dethe field of literature may prove de-lightful, but, save for recreation, will not be as valuable nor effective as a systematic study.

This much for the strenuous side of my topic. But "all work and no play makes Jack a dull boy," and the call of the lecturer must not always be a call to work. Music has its literature, the play has a literature, and the strains of music and the sounds of misth about he often heard in the mirth should be often heard in the

grange hall.

The hope of our order lies in the young men and women of the farm.
Yea, in the children, and the grange hall should be an attractive place to be. It is a safe place for the young and it must be an inviting as well as a profitable place. Each program should carry something of value, but do not expect the young to work all the time; even we who are older tire of constant work, while if it is required the young will be driven away.

If a straw can tickle a man (or a boy) it is an instrument of happiness. I was impressed with this at a recent field meeting where the State master had spoken at some length without monopolizing general attention. A song was announced under the name and style of "My Father's Comical Mule;" at the conclusion of the first stanza by a male quartette, the large audience of two thousand pressed to the stand, and boys, girls, young women with their beaus, middle-aged people, and even old men were standing with mouths agap to drink in not only the fine melody, but the ridiculous words as well. The literature of the song could not be said to be of a high order, but it was tre-mendously effective, so much so, that the mass of humanity was only relieved by the announcement that a learned

judge would be the next speaker.
"Variety is the spice of life," and

farmers enjoy it as well as anybody.

This is written on the wing and without seeing Bro. Mendenhall's article which it is intended to discuss, and so is as a venture, but I can not close without an injunction to Patrons everywhere to remember that if literature is to be made effective in the Grange we must make use of grange literature.

The Bulletin is adding to our literature in every issue and deserves the support of every loyal Patron; other papers carry Grange departments and bring to us rich stores each week. As a result of all this effort our order is building up, slowly it may be, but up, and our banner is being carried forward to victory.—F. A. Derthick, Master Ohio State Grange, in Grange Bulle-

The School not All.

President Schurman of Cornell University, did the cause of education a real service at the Minneapolis meeting of the National Educational Association, by emphasizing the fact that the school is only one—though a very important one—of the educational institutions of the country. There is a tendency among school men, to overestimate their own importance in the educational field. They are very likely to forget that other educational forces have great influence in making the educated

man what he is.
"School," said President Schurman



is generally looked upon as the sole instrument of education. on the other hand, is that the function of the school must be supplemented by other influences—church, society, political affiliations, and all great human institutions. These influences cooperate with the function of the school in the dissemination of knowledge and the education of youth."

In the country, the Grange is one of great educating influences. any competent persons compare two agricultural communities, in one of which an active grange has existed for a dozen or more years, the other during the same time having been without a grange or other organization and then answer if there is not a striking difference in the people of the two communities. One will show the narrowing influence of isolation and the lack of culture which is the mark of isolation. The other will show superior intelligence and familiarity with present-day affairs. One will be found to be a backwoods neighborhood, the other wide-awake and progressive.—American Grance Pulletin. can Grange Bulletin.

The Kansas State Grange.

The thirty-first annual meeting of the Kansas State Grange will be held at Lyndon, Osage County, Kansas, commencing the second Tuesday in December, 1902.

The membership of this meeting is composed of delegates elected in ac-cordance with art. 2 of the constitution of the Kansas State Grange.

ARTICLE II.

Section 1. The legislative part of the State Grange shall be composed of delegates as shall be elected annually, as provided in Section 2.

Section 2. Each Grange shall elect one delegate at large, and one additional delegate for each twenty members or fractional part therof equal to fifteen, at the first regular meeting in September, who shall meet on the third Saturday in October, at the county seat, or such place as may be designated, and elect from the Fourth Degree members of said county, one delegate at large, and one alternate, Provided, said county has one Grange in good standing on the books of the State Grange, and also one additional delegate and one alternate for each three hundred (300) members in the county, or fractional part equal to one hundred and fifty (150), Provided, there be only one Grange in the county, in which case the Grange may elect the delegates direct.

Section 3. The membership in each county shall be determined by the Secretary of the State Grange, who shall report the same to the Deputy in each county, or, where there is no Deputy, to the Master of the senior Grange in the county.

Deafness Can Not Be Cured

Deafness Can Not Be Cured

By local applications, as they can not reach
the diseased portion of the ear. There is
only one way to cure Deafness, and that
is by constitutional remedies. Deafness is
caused by an inflamed condition of the
mucous lining of the Eustachian Tube.
When this tube gets inflamed you have a
rumbling sound or imperfect hearing, and
when it is entirely closed Deafness is the
result, and unless the inflammation can be
taken out and this tube restored to its nornual condition, hearing will be destroyed
forever; nine cases out of ten are caused
by catarrh, which is nothing but an inflamed conditon of the mucous surfaces.
We will give One Hundred Dollars for
any case of Deafness (caused by catarrh)
that can not be cured by Hall's Catarrh
Cure. Send for circulars, free.

that can not be cured by Hall's Catarrh Cure. Send for circulars, free. F. J. CHENEY & CO., Toledo, O. Sold by Druggists, 75c. Hall's Family Pills are the best.

YOU

and you want BUSINESS! Buy one of our latest and best Well Drilling Outfits and you will get both. Our machines are money makers. Address

LOOMIS MACHINE CO., Tiffin, Ohio.

SEND \$1.00 cut this ad out on and send to us and we will send

ash pan, slide hearth plate, nickeled outside oven sneir, combination pouch and boiler door feed, oven door kicker, nickel plated panel on oven door and front door, nickel plated door knobs, aluminum lined oven doors. The Aeme Marrel is furnished with a lifter, scraper and shaker for removing the ashes from under oven, fitted with a large porcelain lined reservoir, furnished on a handsome Rocce patters hase, beautifully nickel trimmed, one of the handsomest stores made. Burns anything, ecal, coke or wood, anything used for fact. Every store is covered by our binding guarantees and safe delivery guaranteed. Always state which kind of fuct you wish to burn. The Aeme Marrel made in our ewas foundry from the best material money can buy, by the most altitude mechanics, and our \$11.12 price is less than dealers pay at wholesale. Order at once. Write for Free Store Catalogue. Address, SEARS, ROEBUCK & CO., CHICAGO,

\$25.00 to...

California

And to Prescott, Phoenix and Many Other Points in Arizona

Tickets on sale daily during September and October.

Through tourist sleepers and free chair cars every day.

Personally conducted excursnons three times a week.

Liberal stop-over privileges in California.

See California's citrus groves, oil wells, ranches, vineyards, big trees, mines.

California has productive lands, perfect climate, good markets.

The rich San Joaquin Valley is an open door of opportunity for the hustler.

T. L. KING, Agent, Depot, Or T. M. JAMES, N. Topeka.

NO MONEY TILL CURED, 25 YEARS ESTABLISHED. We send FREE and postpald a 200 page treatise on Piles, Fistula and Diseases of the Rectum; also 100 page illus, treatise on Diseases of Women. Of the thousands cured by our mild method, appeared a cast sill control and the control of the thousands cured ethod, none paid a cent till cured—we furnish their names on application THORNTON & MINOR, 1007 Oak St., Kansas City, Mo

Drying off Cows. (Continued from page 976.)

Any milking during that month, beyond what is absolutely necessary for the health of the cow, causes a strain on the vitality of the calf, is encouraging a bad tendency, and should be avoided. On the other hand, if the young cow shows an inclination to go dry too soon, every effort should be made to prolong her milking period, which can usually be accomplished by giving her more succulent food and a moderate increase in her grain ration. With nearly all cows the length of subsequent lactation periods is determined by the tation periods is determined by the length of the first period, so it is of the greatest importance that the first period be made as long as possible with-out crowding the second period too closely.

Dairy Notes.

The average New York market for the week ending September 27 was 221/2 cents.

There is no question about it. The best and most paying business to which a young man is called today in Kansas

is the dairy business.

The butter business is now an established one, wholly in the hands of the dairyman. There is no longer any danger by the fraud of olio manufacture. More butter is demanded by the world every day and there is room in the business for every man and every cow

in the world.

The question of a market for your butter is settled. Now the question of quality will wholly govern the price. Dairymen will have to turn their attention to flavor, sweetness, aroma, appearances and everything which goes to make up an attractive table article. There is always fancy prices for fancy

Every farmer with a hand separator owes it to himself and the State to keep his cream in good, clean and as wholesome condition as possible before delivery to the creamery. It yet remains to be proven whether the hand separator system is the right one and the thing to prove is, that dairymen can be educated to be clean enough and prompt enough with their deliveries to have the cream in as good condition for making good butter as if the whole sweet milk was taken to the creamery.

The farmer who tries to reduce the expenses of his dairy past the limit of prudence; who underfeeds; who tries to save in poor and cheap shelter; who makes few cream deliveries or who has not a separator; who tries to save time and hurriedly cleans his utensils; is the enemy to his profession. For he will never be a satisfactory creamery patron and he will always get the smallest price, for the business of buttermaking in this country is not far from a system of prices based on quality as well as quantity.

PILES Fistula, Fissure, all Rectal Diseases radically and permanently cured in a few weeks without the knife, cutting, ligature, or caustics, and without pain or detention from business. Particulars of our treatment and sample mailed free.

Mr. M. McCoy, Goganac, Kans., Captain Company, A, Fifteenth Indiana Infantry, writes: "Hermit Remedy Company, Dear Sirs:—I have doctered for piles since the Civil War—thirty-six years—and am now glad to report that after using your treatment for a few weeks I am completely cured. I believe you can cure any one, for a man could not be in a much worse condition than I was and live, and I am duly grateful to you. Respectfully, "M. McCOY."

We have hundreds of similar testimonials of cures in desperate cases from grateful patients who have tried many cure-alls, doctors' treatment, and different methods of operation without relief.

Ninety per cent of the people we treat come to us from one telling the other. You can have a trial sample mailed free by writing us full particulars of your case. Address HERMIT REMEDY COMPANY, Suite 736, Adams Express Building, Chicago, Ill.

FOR SALE INDIAN LANDS.

6,000 ACRES OF INHERITED LAND.

Located in the Indian Territory, for which titles can pass. Consisting of 80-, 160-, and 200-acre tracts convenient to railroads. Good farm-ing land—some in cultivation. Prices from \$11 to \$20 per acre. Address

WILLIAM HIGGINS VINITA, INDIAN TERRITORY

For information as to Fruit and Truck-ing Lands, Grazing Lands, Soil, and Climate in Virginia, North and South Carolina, Georgia, Ala-bama, and Florida, along the

ATLANTIC COAST LINE RAILROAD, Write to

WILBUR McCOY, Agricultural and immigration Agt., Jacksonville, Fla.

An Opening for Young Men.

There is no business in Kansas or the whole country which offers better chances for money making to the young man than the dairy business. With cheap feed and the very highest prices for butter, there is a splendid chance for a young man with a little calital and some energy to make a good sum of money every year. The Continental Creamery Company will furnish the way.

Our Money Against Your Energy.

You have the grit and the cows. We have the money for your cream. We trade on the basis of the New York market, the highest and most stable in the country. We are paying two and one-half cents below that market for butter-fat in cream and milk delivered at our stations, less actual cost of running the station. We are paying three and one-half cents less than that market for butter-fat in hand separator cream shipped direct. Write us or see our operators.

The Continental Creamery Co., Topeka, Kansas.



G. A. R.

Washington, D. C. and Return - -

lickets on sale October 2d to 5th inclusive, good returning October 14th, except by depositing ticket, it can be extended to leave Washington as late as November 3d. Liberal stop-over privileges anowed.

Special Kansas Train

For the benefit of old soldiers and their friends will leave Topeka 4.30 p. m. nursday, October 2d and will run through to Washington without change via the Santa Fe to Chicago, Big Four to Cincinnati, and Chesapeake & Ohio to Washington. This train will be composed of the finest equipment, consisting of free chair cars, tourist and standard sleepers, double berth in tourist sleepers from Topeka to Washington only \$3.

A stop of two hours will be made in Indianapolis to enable old soldiers to visit the soldiers' and sailors' monument.

THE ELWELL KITCHEN CABINET



Contains three tin-lined Flour Chests; Kneading Board; Bread and Meat Cutting Boards; fine tin Spice Boxes; six Small Drawers; two Large Drawers; one Cupboard and seven shelves; 3 feet 2 inches wide, 25 inches deep, and 6 feet 6 inches high, a little less ficor space than a kitchen table. Ask your Furniture Dealer for a descriptive circular or write for one to the

MINNEAPOLIS FURNITURE CO. Minneapolis, Minn



Oak, No. 11 for coal, wood and lignite, lar-

ger sized Oaks and Ranges, Cooks and Heaters in all styles at factory prices, save you nearly one half, stoves shipped sub-ject to examination at your depot on receipt of \$1. if not exactly as and satisfactory your money refunded.

> CATALOGUE FREE.

Empire Stove Manufacturing Co. Minneapolis, Minn., and Box 752, Kansas City, Mo



A Medicine for Old People.

Rev. Geo. Gay, Greenwich, Kas., is past 83 years of age, yet he says: "I am enjoying excellent health for a man of my age, due entirely to the rejuvenating influences of Dr. Miles' Nervine. It brings sleep and rest when nothing also will, and gives strength and vitality even to one of my old age."

"I am an old soldier," writes Mr. Geo. Watsen, of Newton, Ia., "and I have been a great sufferer from nervousness, vertige and spinal trouble. Have spent censiderable money for medicine and doctors, but with little benefit. I was so bad my mind showed signs of weakness. I began taking Dr. Miles' Nervine, and I know it saved my life."

Miles' Nervine

Saved me from the insane asylam," Mrs. A. M. Helfner, of Jerice Sarings, Mo., writes. "I was so nervess that I could scarcely control mysald, could not sleep nor rest, would even forget the names of my own children at times. I commenced using Dr. Miles' Nervine and it helped me from the first, and now I am perfectly well."

Sold by all Druggists en Guarantee. Dr. Miles Medical Co., Elkhart, Ind.

LUMBER AT HALF PRICE

WE PURCHASED THE PAN-AMERICAN EXPOSITION Send us your lumber bill for our estimate, and we will make you prices delivered free of all charges at your shipping point.

WRITE FOR OUR EXPOSITION CATALOGUE OF MATERIAL CHICAGO HOUSE WRECKING CO.,

PAN-AMERICAN, DEPARTMENT 61

Premium Uniformity at the Fairs.

(Continued from page 963.)

agers of the smaller county fairs, can not afford to pay as many or as large premiums as do the State and National expositions, they can select a portion of the classification that has been found satisfactory by the large and well-established fairs and adapt them to their own needs, thus making a degree of uniformity which will enable the exhibitor to properly prepare. To illustrate: Instead of the classification usually made for the swine classes, the writer recently attended a fair at which a creditable representation of breeding swine was made, but which had but three premiums. One for best brood sow, one for best broad is the secretaries. We have our friends the secretaries. (Continued from page 963.)

classes.

We hope our friends the secretaries, will study this matter a little, and feel sure that it will result in a more satisfactory exhibit of all breeding animals, if all are treated uniformly in the premium list.

Axiine's Poland-China Sale.

Axline's Poland-China Sale.

On Monday, October 20, 1902, there will take place at Oak Grove, Jackson County, Missouri, one of the most important sales of pure-bred stock that is booked for the fall season of 1902. We refer to the regular annual fall sale of Poland-Chinas, to be held by Mr. E. E. Axline. This gentleman stands deservedly high among the breeding fraternity, both as a breeder of exceptional ability, and as a man of strict integrity. Mr. Axline has held many successful sales, and it is the opinion of the writer, who has long been familiar with the herd, that he never before made an offering that quite equaled this one either in breeding or individuality. There are a number of boars that are qualified to go to the head of the best herds in the world, and as for sows, they would grace any collection of females that could be produced. Next week we will go more into details concerning some of the animals. Meantime write for catalogue to E. E. Axline, Oak Grove, Mo.

Shorthorn Sale at the American Royal.

Shorthorn Sale at the American Koyal.

Stockmen who have attended previous sales and shows held under the management of the American Shorthorn Breeders' Association, have no doubt been impressed with the fact, that, with few exceptions, superior cattle have been offered for sale. The association owes a duty to the public as well as to Shorthorn breeders, and this duty it endeavors to perform by presenting to intending purchasers an offering of Shorthorns that will be both a credit to the breed, and also prove satisfactory and profitable to their purchasers.

The offering that will be made at Kan-

isfactory and profitable to their purchasers.

The offering that will be made at Kansas City, October 23 and 24, during the American Royal Shew, will consist of a choice lot of cattle, selected from the herds of leading breeders have consigned to the sale, and the following names will give encouragement and inspire confidence in intending bidders, viz: Hanna & Co., Geo. Bothwell, H. C. Duncan, Kellogg Stock Farm Co., E. W. Bowen, Jos. Duncan, H. R. Clay, Purdy Bros., Powell Bros., T. K. Tomson & Sons, A. A. Wallace, S. W. Roberts, W. A. Forsythe, E. C. Holland, Jos. McConnell, and others.

The offering is thoroughly representative of the breed, both in blood lines and beef form, and in addition to many strictly choice home-bred cows and bulls, several imported ones of rare merit will be included.

Bulls good enough to head any herd can be found in this sale.

included.

Bulls good enough to head any herd can be found in this sale. Also good, vigorous, well-formed bulls that will sell at very moderate prices. Remember the day and remember the breed.

B. O. COWAN, Assistant Secretary.

Berkshires-Kansas City.

The success of the Berkshire show and ale at the American Royal Cattle and wine Show at Kansas City, October 20-

The success of the Berkshire show and sale at the American Royal Cattle and Swine Show at Kansas City, October 20-25, 1902, is assured.

The leading breeders of high-class Berkshires of the States of Indiana, Missouri, Texas, Kansas, Illinois, Ohio, Iowa, etc., have made entries for the Kansas City Show.

The best herds exhibited at the State fairs of 1902, have been entered for the American Royal Cattle and Swine Show at Kansas City, which assures the largest and best show of Berkshires ever made on either continent.

In addition to the show of Berkshires, there will be public sales of the prize winners of 1902, each day of the show.

One hundred and fifty head of top-brad Berkshires are advertised to be sold at Kansas City during the American Royal Cattle and Swine Shows, which will enable farmers and others to buy the choicest specimens of the breed at their own price.

The catalogue for the public sale of

price.
The catalogue for the public sale of Berkshires to be held at Kansas City, October 20-25, 1902, is now ready and may be had on application to the secretary of the American Berkshire Association, Col. Charles F. Mills, Springfield, Ill.

International Live Stock Exposition, Union Stock Yards, Chicago, No-

vember 29 to December 6, 1902.

The International Live Stock Exposition, held each vear in Chicago during the first week of December, is the grand round-up of all fairs and shows of the year. At this exposition all differences of opinion on previous judgments rendered during the show season are settled for the year. The international is a harmonious blending of the interest taken in the live stock and agricultural industry of the world all arge, but more especially of this continent, by the National Pure Bred Record Live Stock and live stock center of the world. The not solved interest in the live stock and live stock center of the world. The not solved interest in the live stock and live stock center of the world. The not solved interest in the live stock and live stock center of the world. The not solved interest in the live stock and live stock center of the world. The not solved interest in the live stock and live stock center of the world. The not solved interest in the live stock and live stock center of the world. The not solved interest in the live stock and live stock center of the world. The not solved interest in the live stock and live stock center of the world. The not solved interest in the live stock and live stock center of the world. The railways grant extraordinary low rates of fare for travel. The Record Associations and by the live stock and live stock center of the world. The railways grant extraordinary low rates of fare for travel. The Record Associations and live stock and live stock and live stock center of the world. The railways grant extraordinary low rates of fare for travel. The Record Associations and by the live stock and live stock and live stock center of the world. The railways grant extraordinary low rates of fare for travel. The Record Associations are provided to the live stock and agricultural people as this, their own live stock and agricultural people as this, their own live stock and agricultural people as this, their own live stock and agricultural people as this, thei

year, both in the breeding, individual fat, and carload divisions of the show, will far exceed the two previous expositions. People from all over the civilized world will attend this now world-famed event. Very low rates on all railroads. Ask nearest railroad agent. Write for booklet on the show.

Gossip About Stock.

Manwaring Bros., of Lawrence, Kans., breeders of large English Berkshire swine, in a recent letter say: "Stock are doing extra fine. Inquiries coming in right along. Prospects for sale are very bright. If good stock will command public attention, our consignment ought to, for in our years of experience we never have seen a better lot go into a sale catalogue. Will be ready about October 1."

F. P. Healy, the eminently successful Shorthorn breeder and public sale manager of Bedford, Iowa, will conduct a sale at South St. Joseph, Mo., stock yards, October 29. Contributors to this sale are O.P. Hendershot, Hebron, Neb.; D.S. Ryan, Leavonworth, Kans.; M. S. Williams, Lone Star, Mo.; Alex John & Son, Bedford, Iowa. The advertisement and further particulars will appear next week.

A. H. Martin, of Toronto, Kans., will sell at public auction, on October 15, a fine lot of high-grade Red Polled cattle, aiso Durhams, 130 in all. His sale will also include a standard-bred Percheron stallon, one Spanish jack and some of the finest jennets in the State. See his advertisement elsewhere in this issue and write him for full varticulars. The sale will be held one mile north of Toronto, Woodson County, Kansas. Any one desiring well-bred stock at reasonable prices will do well to attend this sale.

At the Kentucky State Fair our advertiser Mr. C. N. Moody, Atlanta, Mo., maile his influence felt as a breeder of Galloway cattle. His great imported buil McDougal, demonstrated his right to a place among the leading bulls of the breed by taking both first in class and sweepstakes for bull of any age. Mr. Moody won at this fair first on aged bull and two-year-old cow, second on yearling bull, two-year-old cow, yearling helfer, helfer under one year, exhibitor's herd and breeder's young herd. This with sweepstakes on bull of any age made up his winnings in a very hot competition.

V. B. Howey, of Topeka, Kans., who hogs and other stock for September 24, was unfortunate in having very stormy weather for a farm sale. His offering consisted mainly of summer pigs, and thirty-one head were disposed of for \$566.40, an average of about \$18. He sold some gray Jersey cows at \$29 each. He still has on hand fifty head of Poland-China and Duroc-Jersey swine, a number of Jersey cattle, draft mares, horses, and Shirebred mares, which he announces for an auction sale, to be held at Topeka, December 11, 1902. Parties interested in this class of stock should bear in mind the date, and write to Mr. Howey for further particulars.

Owners and admirers of white faces have been interested in watching the exhibits of O. Harris, Harris, Mo., with his prizewinning herd of Herefords. They will now be interested in knowing that he has just sold his first prize and sweepstakes bull calf, Cyclone, six months and under one year, to J. L. Studebaker, Warren, Ind., for \$4.000. The calf will remain in Harris' show herd until the end of the International live Stock Exposition, when he will be turned over to his new owner. This calf was sired by the famous Benjamin Wilton and out of Harris' undefeated show cow Russet. Harris' sweepstakes winnings at the Kentucky fair were as follows: bull 2 years or over, on Beau Donald 5th; bull under 2 years, on Cyclone; cow or helfer over 2 years old, on Russet; grand sweepstakes, bull any age, on Beau Donald 5th; grand sweepstakes, cow any age, on Russet.

Russet.

It is a popular belief that a hog can be made in six months. But at the present time this will prove a fallacy because of the exceeding scarcity of breeding stock. In the corn belt, which is also the hog belt, much of the breeding stock has been marketed from necessity: but much more has been and now is being marketed, because of the tempting prices offered. The country is now so short on hogs that cattle feeding may be curtailed and it is predicted that the deficiency in the numbers of breeding stock will not be supplied in a short time. Many breeders are selling their young stock thus early in the season at little better than pork prices when by waiting a short time they would be sure to realize a fair value for these animals as breeders. It is not profitable for a man to raise pure-bred registered hogs to sell for \$10.00 a head at three months, and the man who sends a good brood-sow to the market must be either in dire distress or in danger of a commission on sanity.

or in danger of a commission on sanity.

We call especial attention to the advertisement of draft stallions on page 982 of this week's Kansas Farmer, Watson, Wood Bros. & Kelly, of Lincoln, Neb. They have an exceptionally fine lot of English Shire and Belgium draft stallions which they imported this vear. This firm had a most satisfactory trade with readers of the Kansas Farmer last year and are in a position to materially increase the business. The only show that they made of their stock was at the Nebraska State Fair, where they won every possible irst and sweepstakes on their Shire horses in the warmest kind of competition with many of the winners at the Iowa State Fair. The firm also won first in the 3-year-old class of Percherons and second in the aged class. Since the Nebraska State Fair they have received thirty-seven new draft stalliors which they imported from France, England, and Belgium, and they consider them the best lot ever brought to America. Their latest importation includes many ton horses of great action and solid colors.

A business man likes to see his business

THE L. A. ALLEN Cattle Commission Co. JAMES R. HAWPE Salesmen. 25 YEARS IN THE CATTLE TRADE

SELL CATTLE ON COMMISSION

And Fill Orders for Stockers and Feeders. Market Price Guaranteed. Office, 267-268-269 Second Floor Exchange Bidg. OVER INCRESTATE STOCK YARDS, KANSAS CITY, U. S. A. References—Inter-State National Bank and Cattlemen Generally.

are extra; a team of mares 6 and 8 years old, 1100 and 1,300 pounds; a 4-year-old saddler and river, and a team of heavy horses. In the cattle offering are some fresh miled cows, about 10 2-year-old heif-ers (springers). 50 head of 2-year-old steers, about 125 yearlings, and 75 calves. They are mostly dehorned Herefords of high grade. The terms of this sale are exceptionally liberal, being 4 per cent off for cash, or nine months at 4 per cent, and the care of the cattle free of charge until noon of the day following the sale. This sale begins at 1 o'clock sharp, at the Topeka Stock Yards, just east of the Wolff Packing House. We hope to see the farmers out in numbers to attend this sale, for the reason that opportunities for buying will be particularly good.

will be particularly good.

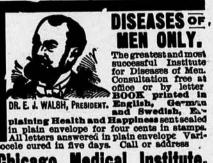
It has been charged that Kansas has a surplus of dogs, and a shortage of sheep, and we are obliged to admit it, with the qualifying statement that it depends on the kind of dogs. Many of the pure breed of dogs are extremely useful and valuable companions and servants of mankind, but an animal which can only be described as just "plain dog" in himself constitutes a surplus. We hope some day to see the waste places of Kansas covered with wealth-producing sheep, which are cared for by their superintending collie dogs. The collie has long been known as one of the most intelligent and useful of all the domestic animals, and it is a well-known fact that it-costs no more to raise a purebred animal of known intelligence and useful intelligence

During this season of plethora of feed and a scant supply of live stock, it is interesting to know where the choicest foundation stock may be had, with which to restock our depleted herds. In casting about over the field, a great deal of interest has been manifested by wide-awake farmers in certain breeds, which have not hitherto been so well known in this State. Among these are the O. I. C.'s. It is cleaimed for the Chester Whites, that they are the most profitable and prolific hogs for farmers and stock-raisers, because of their rapid growth and early maturity. Admirers of this breed claim that it will make more pork, for the amount of food consumed than any other breed, and that the dressed hog commands a better price in the packing centers, than do the dark breeds. They callm a greater docility than other breeds, with less liability to cholera and other swine diseases. One of the best known breeders of this breed, which is rapidly becoming so popular, is John W. Roat & Co., of the Cresent Herd of O. I. C. swine, Central City, Neb., whose advertisement appears on page 984. Hero 13588, who stands at the head of this herd, is a long-bodied, heavy-boned, active boar, who weighs 750 pounds at 2 years old. His sire was Prince Eureka 1945 and his dam Blue Ribbon 2d 19018 Standard. We mention these facts because we know that this firm has an excellent quality of animals and that they are selling them at remarkably low prices. It will pay our readers to correspond with them if they are interested in the Chester Whites.

One of the surprises in the pure-bred live-stock industry. Is to be found in the

correspond with them if they are interested in the Chester Whites.

One of the surprises in the pure-bred live-stock industry, is to be found in the strides which the Duroc-Jersey swine have made in popularity. It may be stated as a fact, that when any breed of pure-bred live stock grows rapidly in public favor, there is a strong reason for it. This reason, in the case of the Duroc-Jerseys, may be found in their early maturity, large size, strong bone, docile dispositions, and wonderful powers of reproduction. It is claimed that in many portions of the country, that older and better known breeds have been bred so fine that their litters are reduced to the minimum size. While with the Durocs their full vigor is still retained and transmitted in the large number of their progeny. If a man is to engage in hog-raising at all, it can be easily demonstrated that it pays vastly better to raise pure-bred animals; to raise those which are prolific, and which bring early returns for the investment, and to raise those which are not so common as to flood the market. We have never yet seen a Duroc-Jersey breeder who had not formerly been a breeder of one of the black breeds, and we have never seen one who was not pleased with the change he had made from black to red. With the growing interest in the Duroc-Jersey breed, it becomes a matter of importance to know where good foundation stock may be had, either for the establishment of a breeding herd or for crossing upon others already on hand. To any such inquirers we would refer to Newton Bros., Whiting, Kansas, who announce a sale of this valuable breed of animals on page 986. Perhaps no better opportunity will be had in this section of Kansas to get a start in the Duroc-Jerseys of the best quality and breeding, then will be afforded by the sale of Newton Bros. We shall give some breeding notes a little later, although these are not necessary as they breed nothing but the best.



DISEASES OF MEN ONLY.

Chicago Medical Institute,

513 Francis St., ST. JOSEPH, MO.

DR. G. E. DARGATZ,
Diseases of Women.
S. E. Cor. Tenth and Walnut, Kansas City, Mo.

\$4 DAY to man with rig to represent us in the country. Bloady job. No apperience necessary, Send stamp for particulars, PERILESS CO. Kansas City. Mo

I HAVE some very fine pedigreed Scotch Collie pups
for immediate shipment. I also have some extra fine B. P. Rock hens and young cockerels will sel
at a bargain if taken soon, as I need the room. Can
furnish pairs, trios or pens headed by a male no kin
to hens or pullets. w. B. WILLIAMS, Stella, Nob.

Low-Rate Excursions

Wabash Line

October 2, 3, 4, 5.

Home visitors' excursions, one fare round trip. 30 days limit. To points in Illinois, Indiana, Ohio, Kentucky, Michigan, Can-ada, including Niagara Falls, Buffalo, Sal-amanca, Pittsburg, Parkersburg, and Wheeling, W. Va.

October 6 to 10.

Boston, Mass., and return. Final limit November 12. \$33.00 and \$30.05. Tickets good to stop over at Detroit and Niagara Falls.

October 2, 3, 4, 5.

NEW YORK CITY AND RETURN: Final limit October 14. \$34.75 and \$32.25 Tickets good to stop over at Niagara Falls. WASHINGTON, D. C., AND RETURN: G. A. R. Final limit November 3. \$24.75. Tickets good to stop over at Detroit and Niagara Falls in addition to the authorized stop overs allowed.

Leave Kansas City 6:15 p. m., arrive Boston 10:00 a. m., New York 7:50 a. m., and Washington, 8:30 a. m. second morning. Many hours ahead of all other lines. We can ticket you via any route.

Information, Wabash Ticket Office, 9th and Delaware Sts., Kansas City, Mo.

A Remarkable Endorsement.

Mr. Allen who represents the United States at Seoul, Korea, purchased a Cornish piano in 1894. After an ocean voyage of some 15,000 miles, and usage for nearly eight years, subjected to the extreme heat and dampness of the Korean climate, writes as follows: Legation of the United States of America, Seoul, P.orea.

Sirs: I wish to inform you of the satisfaction I have had from the Cornish Plano you sent me in 1894. It was a wise selection for this climate. It has stood the severe rainy seasons most remarkably. For four years my two boys practiced two hours daily upon it and for two years it has had a

RI ewes renc

FE

FOI FOI the bag stris V gris V

WH and pl Kans.

W ment

upon it and for two years it has had a pianola attached to it and it has had to do steady service. During all this time it has only been tuned once owing to the absence of piano tuners. A tuning would not hurt it now, and yet it is not particularly out of tune. This record seems to surprise every one, and I consider it worthy of mentioning it to you. (Signed) HORACE N. ALLEN, U. S. Minister.

U. S. Minister.

Korea, which is a semi-independent kingdom in the Far East, was the bone of contion in the China-Japanese War; it is nominally under the control of the Emperor of
Japan, but England and Russia have important interests and maintain Free Trading Ports; it is about 15,000 miles away
from the United States and the climate is
such that if a piano will stand seven years
of its extremes of heat and dampness, it
will stand anything.

True Philanthropy.

Mrs. K. H. Fretter, Detroit, Mich., will send free to any woman who suffers from female weakness or painful periods, a sample of the remedy that cured her.

Special Mant Column.

"Wanted," "For Sale," "For Exchange," and small or special advertisements for short time will be in-serted 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.

CATTLE.

FOR SALE—Two good Shorthorn bulls. Sim Bros. Wakarusa, Kans.

FOR SALE—A. J. C. C. Jerseys. Male caif, a great grandson of the great Pedro, out of a granddaughter of Pedro's Royal Marjoram, second dam a granddaughter of Pedro. Heifer caif, a granddaughter of Exile of St. Lambert, out of a granddaughter of Pedro end Combination blood and year-ling heifer by a grandson of Pedro. Four-year-old cow of St. Lambert-Laudseer blood due December 31 to a grandson of the great Exile of St. Lambert. Three-year-old cow sired by a strongly bred Combination bull. All solid fawns. Geo. W. Maffet, Lawrence, Kans

FOR SALE—My herd bull, Baron Knight 134946, got by Gallant Knight 124468, four years old, dark red, weight 2,200 p-unds; also four Scotch topped bulls from eight to twelve months old; all red. I also have a few cows and heliers for sale, and a fine lot of Light Brahma cockerels. J. P. Engle, Alden, Rice Co., Kans.

FOR SALE—2 double standard Polled Durham bulls and 3 Shorthorn bulls. A. L. West, Garnett, Kans.

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

FIVE HEREFORD BULLS FOR SALE—Never used in a herd, they are in fine fix, at a bargain for cow men. O. L. Thistler, Chapman, Kans.

FOR SALE—Six good Shorthorns bulls, four of them straight Cruickshanks; prices reasonable; now is your chance to get a good individual. H. W. McAfee, Topeka, Kans.

SWINE.

PUBLIC SALE at Tepeka, Dec. 11, 1902. V. B. Howey of Topeka, will sell 50 head of pure-bred Poland-China and Duroc-Jersey swine. A number of Jersey cattle and Shire-bred mares and

FOR SALE—Winners for Kansas City. One year-ling boar, one yearling sow. Poland-China quality un-surpassed. John D. Ziller, Hiawatha, Kans.

A BARGAIN—Three fall Poland-China boars, 40 spring pigs; popular breeding, extra feet, legs, hams, backs, heads, and ears, slick, straight, black coats. G. W. Harman, Ridge, Kans.

IT IS WELL TO REMEMBER that the great hogs Perfect I Know, Chief Perfection 2d, Ideal Sunshine, Top Chief, I Am Perfection, Gold Chief, King Perfection, and Perfect Perfection are all grandsons of the old hero Chief Tecumseb 2d, whose get have taken 95 per cent of all the State Fair ribbons the past ten years. I have for sale four grandsons of Chief Tecumseb 2d fit for immediate service, one out of a grand-daughter of Missouri's Black Chief, second dam by Hadley Jr. A second out of a granddaughter of Chief the Chief, second dam by Wild's Fair Hadley. The fourth is out of a daughter of Chief I Know. Geo. W. Maffet, Lawrence, Kans.

REGISTERED POLAND-CHINAS-\$5 each. Choice Shorthorns cheap. P. H. Mcklitrick, NcCracken Rush County, Kans.

YORKSH RE SWINE for sale. Walter Titsworth, R. F. D. No. 3, Cherryvale, Kans.

TRY THE Kaw Vall y Herd of Poland-Chinas for your breeding stock this season, pairs and trios not akin, where you do not have to mortgage your farm to buy a good one. M. F. Tatman, Hossville, Kans.

SHEEP.

SHEEP FOR SALE—Ten extra choice Shropshire rams and 15 ewes, all eligible for registry. Inspection and correspondence invited. C. S. Harrington, Valley Center, Kans.

FOR SALE CHEAP—100 Shropshire ewes already pred, commencing 25th of January. Allow some culing. B. A. Sponseller, Emporia, Kans.

FOR SALE—Registered Shropshire rams and young ewes of choice quality and the best of breeding. E. S. Kirkpatrick & Son, Wellsville, Kans.

SHEEP—Wanted to buy 500 young ewes, or would take a flock on shares. Have plenty of feed, good range. Eighteen years experience handling sheep in Kansas. I he best of references can be given. J. R. Brown, Stockholm, Okla.

FOR SALE—Two registered Shropshire rams, cheap P. I. McEchron, Richmond, Kans,

AMERICAN MERINOS—Modern, smooth. En-tire flock sheared in May; 21 pounds average. A few rams for sale at a reasonable figure. L. C. Walbridge, Russell, Kans.

REGISTERED SHROPSHIRES—A choice lot of ewes, lambs, and rams for sale. Olin Templin, Law-

FARMS AND RANCHES.

FREE 200 printed farm and ranch descriptions in Statistical book. Write G. Winders, Ottawa, Kans.

FOR EXCHANGE—A nine-room house, two blocks from State House, on paved street, for a farm near Topeka. Address L. M., Kansas Farmer Office, Topeka, Kans.

FARM FOR SALE—A, M. Coleman's farm, situated six miles northwest of Topeka, contains 320 acres; a like farm. For terms, address W. M. Coleman, R. F. D. No. 3, North Topeka, Kans.

FOR SALE—160-acre farm, extra good corn, wheat, and grass land, good improvements. A. E. Cornet, Rural Route 4, Lawrence, Kans.

FOR SALE—Good alfalfa, corn, and wheat land in the banner stock county of Kansas. Write the Verdi-gris Valley Land Company, Quincy, Greenwood Co., Kans.

SEEDS AND PLANTS.

WHOLESALE PRICES! One million fruit trees and plants. List free. Baldwin, Nurseryman, Seneca, Kans.

When writing advertisers please mention Kansas Farmer.

HORSES AND MULES.

FOR SALE—\$75 will buy a weanling trotting stallion standard-bred, sired by Mount Oread out of Casino by Patchen Wilkes, second sireAppamantus out of Frankie Lyons by Mambrino Patchen, third sire Allandorf out of Aima Mater by Mambrino Patchen, fourth sire Onward out of Old Dolly by Mambrino Chief, fifth sire Geo. Wilkes. First dam by Appamantus (as above), second dam by Jerome Eddy 2:16½, third dam by Clark Chief \$9 (son of Mambrino Chief). Both dam and granddam are strong-moving, speedy mares. Geo. W. Maffet, Lawrence, Kans.

PROSPECT FARM—CLYDESDALE STALLIONS, SHORTHORN CATTLE and POLAND CHINA HOGS. Write for prices of finest animals in Kansas H W. McAfee, Topeka, Kansas.

MISCELLANEOUS.

FARM HELP WANTED—Man and wife to work on farm. No. 1 chance for right parties. References required. Mrs. Sarah F. Harris, three miles west of Lecompton, Kans.

FOR SALE—Guaranteed Formula for best horse cattle, sheep, and swine conditioner and health producer and preserver. Money refunded if not satisfied \$1.00 per copy for individual use. County rights for sale E. S. Shockey, 274 Live Stock Exchange, Kan sas City, Mo.

FOR SALE CHEAP—Pedigreed Scotch Collie pups. W. H. Richards, V. S., Emporia. Kans.

WOOL WANTED—Will pay highest market price for wool. Sacks for sale. Topeka Woolen Mill Co., Oakland, Kans.

PATENTS.

J. A. ROSEN, Patent Attorney, 418 Kansas Avenue, Topeka, Kansas

The Stray List.

Week Ending September 18.

Miami County-L. Flanagan, Clerk. Hoss—Taken up by P. J. Harrington, in Paola tp., at the waterworks, one mile north of Paola, August 28, 1902, four head of hogs—two black sows, one weighing about 125 pounds, the other about 75 pounds; also two pigs, about three months old.

Week Ending September 25.

Marion County-Ira S. Sterling, Clerk. SOW—Taken up by W. P. Hunter, in Doyle tp., (P. O. Florence), August 19, 1902, one black sow, weight 200 pounds, short tail.

THERE IS NO SUCH WORD AS

FAIL!

It has been proved by thousands in the past four years that

can be cured by the use of

DANIEL'S SURE PILE CURE.

Two Weeks' Treatment sent postpaid to any address for 25c.

Would you wait until you are on the Operating Table, where it will cost you from \$100 to \$300, say nothing of the Danger, when 25c might cure you now. Send to-day.

H. C. DANIELS, 284 ASYLUM ST., HARTFORD, CONN.

ARE YOU LOOKING FOR A HOME?

Kingman County offers the greatest inducements of any locality in the state to home-seekers looking for a successful combination farming community, especially grain and stock farms at big bargains. For full particulars write for book entitled "OUT THERE IN KANSAS." Address

Frank Weinschenk, Mgr., Kingman County Colonization Company, Kingman Kans.

FARM LAND

In stock, fruit, and grain farms I have the best bargains in the world—Western Michigan—Famous fruit beit, peaches, plums, pears, apples, cherries. Excellent corn land. Clover and grass. Water the best. Better climate than in Kansss; government reports prove it. Unimproved, \$10 to \$12 an acre. Finely improved. \$25 to \$46. First-class markets, schools, churches, railroads, and towns abundant. Every up-to-date advantage. Write for list and book that tells all about it. Easy terms.

S. V. R. HAYES
Michigan Trust Bldg., Grand Rapids, Michigan

Try Us; 23 Years in Business



Ship us your hides, furs, etc.. direct to Kansas City, and we will pay you full value. Prompt re-turns. No commissions. SEND FOR OU PRICE CURRENT. 409 Delaware Street.

O'LAUGHLIN & WEBER, Lakin, Kans.

The American Royal

Cattle and Swine Show and Sales KANSAS CITY, MO. October 20 to 25

\$20,000-In Cash Prizes-\$20,000

Hereford, Short-Horn, Galloway, Aberdeen-Angus Cattle-Berkshire, Poland China Swine

100 Herefords

Sell Oct. 21-22

50 Galloways

Sell Oct. 23 For catalogues address R. W. Park, Secy., 224 Live Stock Exchange, Kansas City, Mo.

150 Berkshires

Sell Oct. 21-22-23-24

100 Short-Horns

Sell Oct. 23-24 For catalogues address C. R. Thomas, Secy., For Catalogues address B. O. Cowan, Asst. Stock Yards, Chicago, Ill. Secy., Springfield, Ill.

100 Aberdeen-Angus

Sell Oct. 21-22 For catalogues address W. C. McGavock, Mngr., Mt. Pulaski, Ill.

200 Poland Chinas

Sell Oct. 21-22-23-24 For catalogues address Charles F. Mills, For catalogues address Frank D. Winn, Secy., Springfield, Ill. Secy., Mastin, Kans.

Excursion Rates on All Railroads

What the Best Farmers in the State Are Saying About Our Packer.

Topeka, Kans., April 18, 1902.

I note the advertising of your Packer and Roller. I have no deubt whatever of its excellence and have no doubt if a thousand of them were in use for each one that is now used, Kansas would be the gainer thereby. Yours with good wishes,

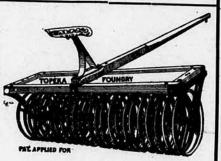
F. D. COBURN, Sec'y State Board of Agriculture.

North Topeka, Kans...
February 20, 1902.
As to the value of your Pulverizer and Packer, words will not give to it the merits that it deserves as a farm implement. The only reason every farmer does not use one, is because they do not know their value: especially in this dry soil of Kansas, where we have so much wind and sunshine; the land is apt to blow away from home I bought one of your tools two years ago and it is in good shape yet, and is in use every time a roller is needed. I am a firm believer in good plowing and surface cultivation and lap listing, and there is no implement equal to the Packer on the farm. Wishing you success,

you success,
Yours truly,
JOSHUA BROWNING.

Don't Wait until you need it to order it or you will get left.

Topeka, Kans., August 28, 1902.
We have used one of your Packers during
the present season. It does good work.
Would not do without it.
Yours truly,
WELLHOUSE & SON, (Apple King).
(Used on Wakarusa Farm)



Mr. H. C. Colburn, of Hoyt, writes us: "Will say that we are well pleased with the Packer pleased with the Packer we bought from you last March. We would not at-tempt to farm without it I put in 60 acres of alfalfa this spring and rolled it three times, now it is as thick as the hair on a dog's back."

dog's back."

By June 1st the alfalfa was 10 inches high and he expected to cuta crop shortly. He put in 125 acres of corn rolled before planting and rolled again after planting. The corn was from 4 to 6 inches high before one drop of rain fell. He planted 150 acres of Kaffir-corn which he rolled after the plow and planting. This makes the amount of acres rolled with our packer 600.

Address, TOPEKA FOUNDRY, Topeka, Kansas.

SANTA FE

Home Visitors' Excursions

FOR OCTOBER.

At Low Rate of One Fare for the Round Trip. To points in Illinois, Michigan, Indiana, Ohio and the following territory east thereof. All points west of and including Toronto, Suspension Bridge, N. Y., Niagara Falls, N. Y., Tonawanda, N. Y., Buffalo, Dunkirk, Salamanca, Erie, Pa., Pittsburg, Bellaire, Ohio, Wheeling, W. Va., Parkersburg, W. Va., Charleston, W. Va.

Tickets on sale October 2d to but inclusive, good for return passage leaving destination as late as November 3d.

sage leaving destination as late as November 3d.

For further information relative to rates, sleeping car reservations, connections, etc., address T. L. KING, C. P. & T. A., Topeka. T. M. James, N. Topeka.

For Sale:

A limited amount of orders filled promptly. Correspondence and orders solicited.

100 Choice Poland-Chinas

For Sale New—100 pigs, sired by Foster's Perfection 27752 and I Know Perfect 48263. Also 25 fall gilts mostly bred for early spring farrow and a few for fall farrow. These gilts are the get of Kansas One Price, Ho est Abe, and I Know Perfect. Will sell a few yearling sows by U. S. Perfection. Address

W. E. NICHOLS. Sedgwick, Kansas

OCTO

\$10.

\$25

5 T

BEC

ou see

F. C.

(Sold CRU) shucks—small gr

LIGH

G H. P.

ADVANC

he E

RITE T

ALV

DEMPSTER STEEL" IMPROVED WINDMILL Give the Wind

> DEMPSTER MILL MFG. CO. All the Latest Improvements. Interchangeable Bearings Factory: BEATRICE, NEF

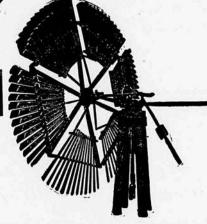
Chance.

WORK FOR YOU IF YOU HAVE A

DEMPSTER

Windmill

and Pump.





WIND MILLS Steel, Vaneless, Solid Wheel

Simple and Reliable. PUMPS

For All Kinds of Pumping.

If your Dealer does not carry them, write us.

Dempster Mill Mfg. Co Factory: Beatrice, Neb.

Branches: OMAHA, KANSAS OITY, SIOUX FALLS.

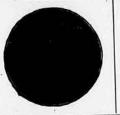
Marshall County Hereford Breeders' Association.

President. Wm. Bommer, Marietta. Vice President.

Wm. Acker, Vermillion.

Secretary, E. E. Woodman, Vermillion. Treasurer,

F. J. Faulkner, Cottage Hill.



Directors:

The President, the Secretary, Fred Cottrell, Irving; Chas. Drennan, I. D. Yarick, Blue Rapids; J. H. Whiting. Frank-

fort; B. M. Winter, Irving.

First Annual Sale at Blue Rapids, November 18 and 19. 1902

REGISTERED HEREFORDS

Anxlety 4th females with Edwards 113325 [at | head

WM. BOMMER, Marletta, Kas. Contributor to Annual Sale Marshall County Hereford Association.

Capital Bluff Stock Farm. PURE-BRED

HEREFORDS. Baechalaureate 81587, bred by Gudgell & Simpson, at head of herd. Write for prices now. Contributor to Annual Sale Marshall County Hereford Association.

I. D. YARICK, Blue Rapids, Kansas.

Ash & Creek & Herd VERMILLION HEREFORD CO. VERMILLION, KANSAS.

Imported Alberta 2d blood. Boatman 56011 at head of herd. A few excellent, young bulls for sale. Contributor to Marshall Co. Hereford Ass'n Annual Sale. E. E. WOODMAN, VERMILLION, KANSAS.

Weston Stamp Herd HEREFORD CATTLE
Anxlety 4th females with Weston Stamp 9th at head.
Contributor to Annual Sale Marshall County
Herefo d Association.

WM. ACKER, Vermillion, Kansas.

Wild Tom Herefords. SUNNY SLOPE TOM 14th AT HEAD.

Contributor to Annual Sale Marshall County Hereford Association. A. H. BIRD, AXTELL, KANSAS.

When writing advertisers please mention

Shorthorn Bulls

Three of them, 8 years old, balance 10 to 20 months, in good, serviceable condition, by Cruick-thank and Scotch-topped sires. This is the best and evenest lot of bulls we ever raised. Prices moderate. A. B. & F. A. HEATH, Republican, Neb.

ROME PARK STOCK FARM.

1. A. HUBBARD, Rome, Kans., ... BREEDER OF ...

Poland-Chinas and Large English Berkshires.

FOR SALE—12 Berkshire boars and 20 bred sows and gilts, 20 Poland-China boars, and 50 bred sows and gilts





Sale of Sedgwick County Shorthorns

AT THE RIVERSIDE BARN IN WICHITA, KANS., SATURDAY AFTERNOON, NOV. 1, 1902,

WM. H. RANSON will sell to the highest bidder, 24 head of high-class Sedgwick County bred and raised SHORTHORNS. The offering will consist of 9 young bulls and 15 head of bred cows and heifers. For further particulars, address

Wm. H. RANSON, North Wichita, Kansas.



STEELE BROS., Belvoir, Douglas Co., Kans.,

* Breeders of SELECT * * - A-S

HEREFORD CATTLE

Young Stock For Sale. Inspection or Correspondence Invited.

SCOTT & MARCH

BULLS in service, HESIOD 29th 66304, Imp. RODERICK 80155, MONITOR 58275, EXPANSION 93662, FRISCOE 93674, FULTON ALAMO 11th 83781.

25 miles south of Kansas City on Frisco; Ft. Scott & Memphis; and K. C., P. & G. Railroads



Pearl Shorthorns

YOUNG BULLS FOR SALE sired by the Cruickshank bulls La-fitte 119915, and Baron Ury 2d 124970. ranging in age from 8 months to 2

Inspection Invited

C. W. TAYLOR, Pearl, Dickinson Co., Kans.

America's Leading Horse Importers We imported ev-

Our French Coach and Percheron Stallions won every first prize at the Iowa State Fair, every first prize at Kansas State Fair including Grand Sweepstakes all draft breeds competing, every first prize at Ohio State Fair including Grand Sweepstakes all draft breeds compet-



ery Percheron Stallion winning first prize at every great show in France in 1902 including the Concours Regional, the great annual show of France and the show of the Societe Hippique Percheronne at Mortague, excepting one 2-year-old stallion.

We import more, sell more and therefore sell cheaper than anybody else. When you see it in McLaughlin Bros.' ad. it's so.

McLAUGHLIN BROS., Columbus, Ohio. Branches: Emmetsburg, Iowa, and Kansas City, Missouri.



Draft Stallions :



Percherons, Shires, Belgiums. 60 Head to Select From All Imported by Us and Guaranteed

\$1,000 buys a good one from us this fall. It pays you to buy one now as you get him cheaper and keep out competition. Don't pay a big price for a horse, but com? and see ours and get a good one for less money than a small importer can possibly sell for. Our stables are across the road east of the Burlington Depot. WATSON, WOODS BROS. & KELLY, Lincoln, Nebraska.



RCHERONS.

J. W. & J. C. ROBISON.

IMPORTERS AND BREEDERS, TOWANDA, BUTLER CO., KANS.

WHEN WRITING OUR ADVERTISERS MENTION KANSAS FARMER.

\$10.00 A Sweep Grinder For \$10.00



Mills,
Steel Towers, and
Feed
Grinders,
All sizes and styles. Write
for crtalogue and prices.
Topeka, Kansas. CURRIE WINDMILL CO., Topeka, Kansas.

5 TON

IS WHAT YOU CAN SAVE We make all kinds of

Write for prices

ALSO B. B. PUMPS AND WINDMILLS. BECKMAN BROS., Des Moines, Iowa



IF AN AGENT PAGE WOVEN WIRE FENCE CO., ADRIAN, MICH.



BUY THE BEST Illinois Wire Co., Dept. MChicago, Ills

HE LARGEST AND BEST LINE OF

een making it for 20 years. Do not buy until ou see our new Illustrated Catalogue No. 41. Send for it. It is FREE.

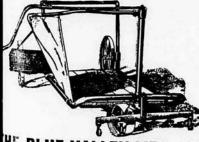
F. C. AUSTIN MFG. CO., CHICAGO







ADVANCE FENCE CO., 130 O ST., PEORIA, ILLINOIS.



HE BLUE VALLEY MFG. CO.,

MANUFACTURERS OF he B. V. Sweep and Power Feed Mills; The Imp. B. V. Safety Corn Harvesters, Oak Stoves, and Stove Reresholds, Chimney Caps, etc. VRITE TO US. MANHATTAN, KANRAR.

AVANIZED WIRE PRICES.

To car loads of new galvanized wire, in short lengths.

Never was used. Comes from 6 to 16

Reauge. Put up 100 lbs. to a coil and only one size wire to each bundle.

Prices range from \$1.40 to \$1.90 per 100 pounds.

Our Free Catalogue No. 4 for the asking. We handle all kinds of supplies from Sheriff's and Receiver's Sale, Chicago House Wrecking Co. |



ENSILAGE? If not, write us and we will tell you why you should. CUTTERS Address,

ROSS We will also tell you about Profit-Making

The E. W. Ross Co., Springfield, O. Our Illustrated Catalogue No. 49 is Free.

GASOLINE ENGINES
WRITE FOR CIRCULAR OF
THE AMERICAN WELL WORKS
AURORA ILL - CHICAGO - DALLAS TEX



Economy Pitless Wagon and Stock Scales Require No Pit....



Metal Frame

Scale shipped complete except the few plank for flooring. Glit-edge guarantee. The scale, being all metal, except beam-box and floor, will endure more service and retain its accuracy for a longer period of time than any other scale. The most reasonable-priced scale on the market. Write for particulars.

McDONALD BROS., Pleasant Hill, Mo.

STICKNEY **JUNIOR**

THE BEST AND CHEAPEST GASOLINE ENGINE MADE

3 H.P. ONLY \$110.00

Simplest and cheapest. Pumps water, grinds feed, saws wood and does many other things. Write for free catalog.

CHARLES A. STICKNEY CO. 120 Fairfield Ave., ST. PAUL, MINN.





WAIER IS NOI MIXED WITH MILK
Therefore, impure water does not taint
the Cream and the skim-milk is left pure
and sweet. ... WE PAY THE FREIGHT.
Descriptive circulars, reliable testimonials, and prices mailed on request. Write
to-day. Can't get in touch with such a
money-maker too quick. : : : :

SUPERIOR FENCE MACHINE CO.,

172 Grand River Avenue, Detroit, U. S. A5



GEE WHIZZ WASHER!

(Double Reflex)

Adjustable to wash from handscreiefs to he avy blankets. (No more use for the wash lord.) Washes in one minute what it takes any other washes with the washes any other washes with the washes any other washes any other washes any other washes with the mot to leak, and to stand any climate, ere we have no dealers or agents we sell injective this well and to stand any climate, washes wholesale price. Guaranteed the entire satisfaction. It will pay you to invest the the merits of this machine. Write for university of the machine, write for university of this machine. Write for university of the machine, write for university of the machine, write for university of the machine. Write for university of the machine, write for university of the machine, write for university of the machine, write for university of the machine. Write for university of the machine, write for university of the machine, which is the machine, and the machine are lined with galaxies.



\$24.90 FROM FACTORY \$24.90

Why pay Middleman's Profit when you can buy at Factory Prices. This ELEGANT RANGE Costs you only 224.90. It is made of the Bost Patent LEVELED COLD ROLLED STEEL LINED THROUGHOUT with GRUNDER COAL SHIPPED C. O. D. Has a Fincen-Gallon Galvanized Reservoir WARRANTED TO WORK AND WEAR AS WELL AS ANY RANGE ON THE MARKET. 25,00 20 of these Ranges sold the past five years and not one complaint.

STEEL RANGE MANF'G CO., Dept. D, 520 Olive Street, ST. LOUIS, MO. 25 WRITE AT ONCE FOR DESCRIPTIVE CIRCULAR.



IAN'S Cattle Feeding Machinery,

Ensliage Cutters, Corn Threshers, Feed Cutters, Crushers, Etc.

THE most economical, rapid and best machinery of the age for preparing feed. We are manufacturing a full line of the Porter machinery for cutting ensilage, cutting or crushing ear corn with shuck and stalk on. Threshes, shells and cleans corn ready for market, shreds stalks and shucks with less expense than any other machine. All of which are fully warranted, Manufactured by

WHIMAN AGRICULTURAL CO. ST. LOWE. WE

WHITMAN AGRICULTURAL CO., ST. LOUIS, MO.



By buying direct from the manufacturer, the jobber and retailer are cut out and you get their profits.

We will sell you Carriages, Bug-

Fine Set Single gles and Harness at actual cost Price \$6.75.

of making with reasonable profit added. Buy-ing direct insures a large saving and satisfaction. Your money returned if not satisfied.

ST. JOSEPH BUGGY CO., St. Joseph. Mo.



from factory to consumer at Wholesale Prices. Guaranteed to be the Best. Our 6-foot diameter, 2 foot high, 14 barrels capacity, \$11.55. 7-foot diameter, 2 foot high, 30 barrels capacity, \$14.70. 8-foot diameter, 2 foot high, 24 barrels capacity, \$16.80. Free on board cars Kansas City, Mo. We

have the largest factory in the West, and we manufacture a complete line of Galvanized Steel fanks. Write for our free illustrated Catalogue.

PERFECTION STEEL TANK CO., Station "A," Kansas City, Mo.

Dr.REA'S BLACKLEG VACCINE



(PILL FORM)

absolutely guaranteed to protect your cattle from **Blackleg**. Each pill of **Vaccine** is an exact dose; and vaccination with them is safe, sure and certain.

My injector puts the pill under the skin easily and quickly. By ordering direct of me, you get fresh vaccine immediately by return mail. Sent fully prepaid on receipt of price.

20 " 3.00 Italy prepaid on receipt of price.
50 " 5.00 SPECIAL OFFER: For a short time only I will mail one of my dollar nickel plated injectors free with every order for 10 doses or more of Blackleg Vaccine. Not sold by druggists or dealers. No agents. Prepared and sold only by

Write for 32-page treatise on Blackleg. It is free.

Dr. CHAS. L. REA, 220 EAST 32d STREET,

BEST PREVENTIVE OF BLACKLEG.

Blacklegoids afford the latest and best method of vaccination against blackleg—simplest, safest, surest. They are always ready for use; no filtering, measuring or mixing is necessary. Accuracy of is always assured, because each **Blacklegoid** (or pill) is exactly sufficient for one inoculation. Administration with our Blacklegoid Injector is easy. The operation need not consume one minute. Blacklegoids are sold by druggists; ask for them.

or newly printed eight-page folder on the "Cause and Nature of Blackleg" is of interest to stockmen. Write for it; it is free.

KE, DAVIS & CO. - DETROIT, MICH. PARKE, DAVIS & CO.

Branches: New York, Kansas City, Baltimore, New Orleans, Chicago;
Walkerville, Ont.; Montreal, Que.; London, Eng.



"FOLLOW THE FLAG."

DAILY TRAINS 5 Kansas City

FINEST EQUIPMENT.

..... St. Louis SMOOTH TRACK.

The Wabash passes through Forest Park, sight of the World's Fair Grounds in full view of all the magnificent buildings now being erected. The only line that does it. Wabash Fast Mail No. 8, leaving Kansas City 6.15 p. m., saves a day's travel to East-

Wabash Ticket Office, 9th and Delaware Sts., Ransas City.

D.

AB

MA

JA

P

Hig

lnc

TI

A

S

Breeders' Directory.

DUROC-JERSEY SWINE.

D. TROTT ABILENS, KANS., famous Du-

Registered Stock, DUROC-JERSEYS, contain breeders of the leading strains. N. B. SAWYER, - - Cherryvale, Kanss

DUROC-JERSEYS
DUROC-JERSEYS FOR SALE—20 fall and wint
gilts. 125 spring pigs that are up to date. Prices re
sonable. Newton Bros., Whiting, Kans.

M. H. ALBERTY, - - Cherokee, Kaussa DUROC-JERSEYS.

100 head for this year's trade; all eligible to re-

ROCKDALE HERD OF REGISTERED DUROC-JERSEY SWINE. F. CHANDLER, Frankfort, Kansas.

DUROC - JERSEYS.

J. U. HOWE,
Wichita, Kansas.
Farm Zmiles west of
city on Maple Avenue

FAIRVIEW HERD DUROO-JERSEYS One hundred and twenty Duroc-Jersey pigs, all to be eserved for sale, October 23, 1902. J. B. DAVIS, FAIRVIEW, BROWN Co., KAMS.

REGISTERED DUROC-JERSEY SWINE—Pop lar strains. For Sale: Fall gitts and 1902 spring for row pigs, both sexes. H. C. Riggs, Rural delivery at telephone, two miles northeast of Wetmore, Kansas.

WALNUT HILL HERD DURGO-JERSEY SWINE.

H. A. J. COPPINS, County Clerk, Eldorado, Kanstock of both sexes for sale.

MAY'S DUROC-JERSEYS Higgin's Hero 11889 at head of herd. Choice spring pigs of both sexes for sale.

Wm. A. MAY, Blue Hill, Nebraska.

ROSE HILL HERD OF DUROC-JERSEY HOGS

Gilts bred for fall litters, boars ready for service, and a choice lot of gilts to breed. I have both first and second State Fair prize boars to use on them. S. Y. THORNTON, Blackwater, Missouri

STANDARD HERD OF Registered Duroo-Jerseys

PETER BLOCHER, Richland Shawnee Ca. Kana. Herd headed by Big Joe 7883. Over 100 head re erved for sale on the farm, November 3.

Golden Rod Herd of Prize-winning Duroc - Jerseys

Van's Perfection 11571, sweepstakes boar a all State Fairs of 1902, at head. Both fall and spring pigs of both sexes and of his get for sale.

GILBERT VAN PATTEN, Sutton, Neb.

POLAND-CHINA SWINE.

V. B. HOWEY, R. F. D. 5, Topeka, Kas BREEDER AND SHIPPER OF POLAND-CHINA HOGS, JERSEY CATTLE S. L. WYANDOTTE CHICKENS. Eggs in season

Dietrich & Spaulding, Richmond, Kans FOR SALE: 20 boars ready for service; sows bred or open. 100 spring pigs.
Our POLAND-CHINAS are at the Top.

High-Class Poland-China Hogs

Jno J. Marshall, Walton, Harvey Co., Kans Breeds large-sized and growthy hogs with good bone and fine finish and style.

VERDIGRIS VALLEY HERD OF POLAND-CHINAS

FOR SALE: Six 8 and 10 months old boars, every one a show boar and as good as I ever bought to use in my herd. Also 150 spring pigs that are immense.

E. E. WAIT, Altoona, Kans.

SHADY LANE STOOK FARM

HARRY E. LUNT, Proprietor, Burden, Cowley Co., Kans.

A few choicely bred Poland-China Bears for sale, some choice open gilts and bred sows. A Public Sale of Poland-China Hogs will be held November 14, 1902.

SHADY BROOK STOOK FARM POLAND-CHINAS

I keep constantly on hand all sizes and ages of high-class Poland China pigs. Quality high, prices low. Write for description and price to

H. W. CHENEY, NORTH TOPEKA, KANSAS.

FIRE SALE OF

POLAND-CHINAS On August 28 fire destroyed my barn with all feed and machinery. I must have money to rebuild at once. For the next 60 days my entire crop of spring pigs goes at one half price. Write me for prices and breeding. I can sell you a bargain.

pigs goes at one half price. With breeding. I can sell you a barg EMMET McGREW, Kessuth, Linn Co., Kans. POLAND-CHINA SWINE.

FOR SALE Poland-China Hoss, Holsex. Best strains represented. H. N. Holderman, Rural Route 2, Girard, Kans.

Kansas Herd of Poland-Chinas Has some extra fine gilts bred; also some fall boars. Will sell Sen. I Knew, he by Perfect I Knew. Address—

Hutchinson, Kansas F. P. MAGUIRE,

THOROUGHBRED Poland - China Hogs.

Special price for next 20 days on 10 bred gilts, to far-row in April and May; they weigh from 200 to 275 pounds, and most of them are bred to Black Perfection 27132, the best breeder I ever owned. Also 20 fall plus, and 4 boars large enough for service. 100 head in herd. Write for anything you want in Poland-China hogs. JOHN BOLLIN, R. F. D. No. 5, Leavenworth, Kans.

PECAN HERD OF POLAND-CHINAS Having sold our farm here, we will make close prices on our

Poland-China BOARS AND GILTS

Have a very fine lot to select from. Sired by Model Tecumseh, J. L. Best, and U. S. Wilkes. J. N. WOODS & SONS, OTTAWA, KAS.

Pleasant Hill Herd of

PURE-BRED POLAND-CHINAS

Blood of Corwin, Chief Tecumseh 2d, Chief I Know Hadley's Chief, Ideal U. S. and others of like quality Klondyke 26786 at head of herd. A few choice young rilts and boars for sale

T. B. PITCHER & SON, Rural Route No. 1, Topeka, Kans.

KNOLLWOOD FARM HERD

LUE BLOODED IQ BONED ROAD BACKED ERKSHIRES . .

A few fancy young boars ready for service Orders booked for spring pigs. E. W. Molville, Eudera, Kansas.

PRAIRIE DALE HERD OF POLAND-CHINAS

150 choice spring pigs, sired by five first-class boars, r sale; a son of Chief Tecumseh 3d at head of herd arties wishing to visit herd will be met at Abliene, if the begiven. Farm 2% miles northeast of Abliene.

C. M. GARVER & SON, R. F. D. No. 1, Abilene, Kansas

SENSATION HERD

Practical Poland-Chinas

Offers 5 splendid big-boned Sows bred to my great Chief's Model 23460, by M. B. C. 19399, out of Lady Short Stop (4999).

5 Sows, including two daughters of Missourl's Black Chief bred to E.'s Perfection 28145, he by Chief Perfection 2d 21701.

2 extra heavy boned Sensation Sows, bred to that big-boned "901 Fine" 26580; also, 30 extra Spring Pigs of above breeding.

Call on or write me.

HARRY EVANS,

Pleasanton, Kans,

My reference is my customers.

CHOICEST STRAINS

Poland-China Hogs.

400 head in herd. Fashionably bred sows and gilts bred to Broad Guage Chief 25733, first prize winner International Show 1900, and Simply O. K. 24290, first prize winner Missouri State Fair 1901. 200 winter and spring pigs in special offer. Bargains in Registered Stallions and Mammoth Jacks. Also SHORTHORN AND POLLED DURHAM CATTLE.

SNYDER BROS., Winfield, Kas.

POLAND - CHINA PIGS.

Sired by Black Missouri Chief 25785 [the magnificent son of the \$1,000 Missouri's Black Chief, the sweepstakes State Fair winner in 1899, also brother to the International winner at Chicago in 1901], a boar of enormous size, six feet from ears to root of tail, 700 pounds, in his twenty-five month old breeding form, perfect in proportions, unexcelled show coat and finish, stamping his likeness on all his pigs, and for which I have refused \$500. Pigs \$10 each. Show pigs, \$25 each. All from sows of the very best of breeding, costing large sums of money His fall glits, safelin pig to Proud Perfection 2d, the proud and stylish \$500 son of the great sweepstakes winner, \$30 each. The pigs from the mating will have pedigrees as rich as brains and money can get; all the sweepstakes State Fair winning boars from 1892 to 1901 represented. Such a combination of nine of the great sweepstakes boars, selling as high as \$4,000, is no accident, but the result of years of great study and enormous expense. The very acme of fancy breeding, as the analyzed pedigrees will show. Pacific and American Express.

J. CLARENCE NORTON,

Moran, Allen Co., Kansas

CHESTER WHITE-SWINE

CHESTER WHITES I am offering 80 head of Chester White fall and sprin pigs, either sex, at reasonable prices. The best strain of this breed. Will Michael, Selma, Iowa.



D. L. BUTTON, North Topoka, Kas IMPROVED CHESTER WHITES Farm is two miles northwest of Reform School.

THE CRESCENT HERD O. I. C. The World's Best Swine. The World's

Hero 13583 (11761) at head, assisted by Teddy R. 13463; hoice spring pigs as good as grows, for sale. Only rst-class shipped.

JOHN W. ROAT & CO. CENTRAL CITY, NEBRASKA

CHAMPION HERD OF ..IMPROVED..

Chester White Swine Perfection 11705, sweepstakes boar, 1901, and Pan America 11943, first prize, New York State Fair, first, Michigan State Fair, and first in class at Pan-Ameri-can Exposition, at head of the herd. The champion-herd, Nebraska State Fair, 1902. Choice spring pigs of both sexes for sale.

BLODGETT BROS

BEATRICE, NEB.

BERKSHIRE SWINE.

YOU ARE INVITED TO OUR

PUBLIC SALE, NOV. 7, 1902

LARGE ENGLISH BERKSHIRES MANWARING BROS., Lawrence, Kansas

HILLSDALE HERD OF

Prize-winners in 1901 and 1902. Hillsdale hampion 5884i, assisted by Teal's Favorite at ead. Spring pigs of both sexes for sale.

THOS. TEAL & SON, Utica, Van Buren Co., Iowa

HIGH - BRED BERKSHIRES

Of the Leading Families

Herd numbers 150 head. All classes of stock for sale. Satisfaction guaranteed. Shipping station, Polo, on C., M. & St. P. R. R. Write for prices and full particulars.

D. T. MAYES, Knoxville, Mo. EAST LYNN HERD OF

LARGE ENGLISH BERKSHIRES Herd headed by Premier 4th 55577 assisted by Rutger Judge 2d 61106.

ONLY THE BEST. Imp. Elma Lady 4th 44668, the highest priced Berkshire ever sold in Kansas City, is in our herd and there are others like her. Inspection invited six days in the week.

WILL H. RHODES, Tampa, Marion Co., Kan

CATTLE.

LAKE FARM HERD OF SHORTHORN CATTLE.

100 head of Rose of Sharon, Princess, Duchess of Goodness, and Scotch females, with Roan Chief 184796 and Royal Prince 183028 at head. 20 young bulls for sale.

J. C. HALL, Hallsville, Boon Co., Mo.

Silver Creek Shorthorns.

The Scotch bull, Gwendoline's Prince 189913, in service. Also the imported Scotch Missie bull, Aylesbury Duke. 100 head of the best Scotch, Bates, and American families. High-class Duroc-Jersey swine for sale. J. F. STODDER, Burden, Cowley Co., Kans.

THE GEO. H. ADAMS HEREFORDS

AT LINWOOD, KANS.

YEARLING Bulls and Heifers for sale, sired by Or pheus 71100, and ashton Boy 52058, and out of Choice imported, and home-bred cows. Address all corre-spondence to GEORGE F. MORGAN, General Manager, Linwood, Kans.

SUNFLOWER HERD OF Scotch and Scotch-topped



Eskridge.

SHORTHORN CATTLE and POLAND-CHINA
SWINE
Two Scotch bulls in ser-

Two Scotch bulls in service. Representative stock for sale. Address Andrew Pringle. County, Kansas. CATTLE.

SMALL HEREFORD HERD FOR SALE—Owing to a change of business I will close out my entire here of thoroughbred Hereford cattle: 12 cows with calves, 4 yearling heliers, and 5 yearling bulls. For particu-lars address E. S. Cowee, R. R. 2, Burlingame, Kans,

RINGLISH RED POLLED CATTLE—Purs-bred Young Stock For Sale. Your orders solicited. Address L. K. HASELTINE, DORCHESTER, GREEN Co., Mo. Mention this paper when writing.

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

Aberdeen-Angus. EVERGREEN STOCK FARM. Have 15 registered bulls—7 to 21 months old, sired by Niel of Lakeside 25645; also registered cows and heifers, highly bred. Will sell in lots to suit. Call or address

CLOVER CLIFF FARM REGISTERED GALLOWAY CATTLE.

BEO. DRUMMOND, Elmdale, Chase County, Kansas



Also German Coach, Saddle, and trotting-bred horses. Werld's Fair prise Oldenburg Coach stal-ilon Habbo, and the saddle stal-ilon Rosewood, a 18-hand 1,100-pound son of Montrose in service. Visitors always welcome.

BLACKSHREE BROTHERS,
Elmdale, Chase County, Kansas.

SHORTHORN HERD FOR SALE.

Consisting of nine 1 and 2 year old bulls, fifty cows from 2 to 10 years old, and twenty-five calves by the side. The get of Royal Bates 123675. Biggest Short-horn Bull in Kansas. Cows bred to Captain of May-flower, Red Rover, or Royal Bates. Everything in good shape. Call or address, Louis Hothan, Carbon-

WAYSIDE HERD OF REGISTERED HEREFORDS.

"ANXIETY WILTONS." Printer 66684, a son of Beau Brummel 51817; March On 14th 106676, a son of March On 76035; Good Sign 140367, a son of Printer 66684, are the buils in service. Some excellent young things—both sexes—for sale. Keep your eye on South Omaha, January 22 and 23. W. W. GRAY, Fayette, Mo.

GLENWOOD HERDS

Shorthorns headed by Victor of Wildwood, by Golden Victor, he by Baron Victor. Late herd bull Gloster 187962. Polands headed by Glenwood Chief Again. For sale choice young bulls; also females. Prices right. Choice fall boars and gilts cheap. Visitors invited. Cor respondence solicited. Address

C. S. NEVIUS, Chiles, Miami Co., Kans. 40 miles south of K. C., on main line of Mo. Pac. R. B.

E. H. WHITE, Estherville, lows. GALLOWAY OATTLE



HICKORY HEAD BREEDING ESTABLISHMENT

Breeders of pure-bred Hereford cattle with Roy 11529l, the best son of Java, at head. Young bulls for salt. Large English Berkshires with a son of Sunny Slope herd boar at head. Choice spring pigs for sale. J. W. WAMPLER & SON.

CHAMPION GALLOWAYS

Brazilton, Kans.

...FOR 1902... Up-to-date Galloway Cattle, All Ages, For Sale, Personal Inspection or Correspondence solicited by

C. N. MOODY, Breeder, ATLANTA, MISSOURI.

North Elm Creek Herd Pure-bred Shorthorns and Poland - Chinas

Scotch-topped Young Mary females with 9th Knight of Elmwood 161507 at head. Call on, or write, W. J. Smith, Oketo, Kas

...CHOICE... POLLED DURHAMS FOR SALE.

Herd headed by Young Emperor, 690 Polled Durham Herd Book, and 128130 S. H. Herd Book, which I also offer for sale. Also double standard young buils, and good grade cows, buils and helfers for sale. Inspection invited. C. M. ALBRIGHT.
GLOBE, DOUGLAS COUNTY, KANSAS.
Postoffice address, R. F. D., Baldwin, Kansas.

JAMES A. FUNKHOUSER PLATTSBURG, MO., BREEDER OF

HIGH-CLASS HEREFORD5

BULLS IN SERVICE: Hesiod 2d 40679, March On #98537, Hesiod 85th 116352, Onward 2d 118599.

D. K

Kan Imp. Prin

HAI

CATTLE.

D. P. NORTON'S Breeder of Pure Bred SHORTHORNS SHORTHORN CATTLE Herd Bull, Imported British Lien 133699.

ABBOTTSFORD STOCK FARM OF SHORTHORMS

For sale, after August 15, the herd bull, Imp. Beauty's Heir 145125; also 30 high grade cows and heifers, good milkers. D. Ballantyne & Sons, Herington, Kans.

MAPLE LEAF HERD OF THOROUGHBRED

Shorthorn Oattle, and Farm is 2 miles south of Rock Island depot.

Poland - Ohina Swine.

JAMES A. WATKINS,
Whiting, Kans

SHORTHORN BULLS

FOR SALE: Registered and high-grade Shorthorns of Cruickshank breeding. No better bulls anywhere. Bargains for quick buyers. Address A. C. JORDAN, Lyons, Kans.

MODEL BLUE GRASS FARM. HEREFORDS.

Stock For Sale. OVERTON HARRIS, Harris, Mo. ESKDALE HERD OF

ABERDEEN - ANGUS CATTLE

YOUNG STOCK FOR SALE. JAMES FRATER, Fredonia, Wilson Co., Kas

Registered Herefords.

THOS. EVANS, Breeder, Hartford, Lyon County, Kansas. Special Offerings: Young cows and helfers, and few bulls for sale.

SCOTCH-TOPPED SHORTHORN CATTLE. **FASHIONABLE**

POLAND-CHINA SWINE. REGISTERED BULLS FOR SALE. A. MEAD, Carbondale, Kansas

THE SUNFLOWER HERD PURE-BRED

Angus Cattle



Herd headed by Hale Lad 80645. Herd numbers 250 head, the largest herd bred by owner in America. Stock for sale. Address PARRISH & MILLER Hudson, Stafford Co., Kans

HESIOD HEREFORDS.

Highest class females with Hesiod 16th 56466 and Copyright 90079 at head of herd.

CHOICE YOUNG BULLS

including two show animals I for sale

WESLEY SLOAN, Wellsville, Kansas.

Plainview Stock Fa

HESIOD HEREFORDS

Hesiod 54th 81362 at head. A few choice bulls and cows of his get for sale at very reasonable J. A. LARSON, Everest, Kans.

ALLENDALE HERD OF Aberdeen-Angus Cattle

The Oldest and Largest in the United States Splendid recently imported bulls at head of herd Registered animals on hand for sale at reasonable prices at all times. Inspect herd at Allendale, near lola and La Harpe; address, Thos. J. Anderson, Manager, Iola, Allen Co., Kans., R. R. 2, or—

ANDERSON & FINDLAY, Prop's, Lake Forest, III

IRI.

15

ight

AB.

ER

Vinewood Herd of Registered SHORTHORNS.

Armor Bearer and Lavender King cows with American Royal prize-winner Orange Lad 171599 and Lavender Gloster 166056 in service. Advance Guard and Lavender King yearling bulls for sold

D. K. KELLERMAN & SON, Mound City, Linn Co., Kas

...SALE ENTRIES...

Kansas City, October 23-24, 1902.

Imp. Lord Cowslip 189616, bred by Wm. Duthie; Prince of Collynie 163202; Emeline and Lucerne, Vol. 49, P. 795. These are Show Cattle of choicest Scotch breeding. Also some young Scotch bulls at private sale.

HANNA & CO., HOWARD, KANS.

CATTLE.

SUMMIT HILL STOOK FARM Polled Durham and Shorthorn Cattle. Young bull sale. G. K. Smith, Prop. Lincoln Kans.

A. BUMBARDNER & SON, Holton, Kansas, Breeders of RED POLLED OATTLE

A herd bull and a few young ones for sale. Registered Herefords

Ten extra good buils, one year old and over; 8 are sired by Klendike 72001, and 2 by Young Autocrat 101417. Will sell cheap. ALBERT DILLON, HOPE, KANS

RED POLLED CATTLE. CHAS. FOSTER & SON, Foster, Buttler Co., Kans.

FOR SALE—A few calves, also Prize-winning Light Brahma Chickens. Call, write or telephone.

Beulah-land Farm.

Greeders of the choice strains of Red Polled Cattle and Poland-China swine. Choice young animals of ooth breeds for sale.

Wilkie Blair.

Rural Route No. 1.

Girard, Kans.

GREENDALE . RANCH. BREEDERS OF PRIZE - WINNING

SHORTHORN CATTLE, BERKSHIRE SWINE, and SHROPSHIRE SHEEP.

Great constitution and lung capacity gained in high altitudes. A few select young swine and sheep for sale. ED. GREEN, MORRISON, COLO.

Gallant Knight Bulls. ...Ready For Service...

We are letting these go at low prices to make room for our new crop, which is large. Calves by our Imp. Tilly cairn, assistant herd bull, are now old enough to sell. We have long distent phone connections with 150 towns in Kansas. Nearest railroad point, Valencia, on the Rock Island. Visitors always welcome. See our show herd at Western State Fairs.

T. K. TOMSON & SONS,

Dover Shawnee County, Kans.

BILL BROOK BREEDING FARM Shorthorn Oattle and Angora Goats.

Herd bull Iowa Scotchman 2nd 138687. Write for what you want. Address,

H. O. TUDOR, Holton, Kansas.

Rocky Hill Shorthorns and Saddle Horses

Sempstress Valentine 157771 and Mayor 129229 at head of herd. Young animals reserved for annual sale at Wellington, Kans., November 22. Larkin's Duluth and Kansas King at head of Saddle Horse Herd.

J. F. TRUE & SON, Perry, Kans. Railroad Station, Newman, Kans.

70 Registered Herefords

For Sale-70 Young Cows and Heifers, bred to the great herd-bull, Beau Gondolus 133227-sire, Beau Brummel 51817; dam, Gwendoline 10th 71732. For particulars address,

J. A. OARPENTER, Carbondale, Kans

The N. MANROSE

RURAL ROUTE NO. 5, OTTAWA, KANS.

Giltspur's Knight 171591 at head of herd. Young bulls ready for service for sale.

H. R. LITTLE, HOPE, DICKINSON CO., KANS., Breeds Only the Best,

Pure-Bred SHORTHORN CATTLE

Herd numbers 135, headed by ROYAL CROWN, 125698, a pure Cruickshank, assisted by Sharen Lavender 143002. FOR SALE JUST NOW—16 BULLS of serviceable age, and 12 Bull Calves, Farm is 1/4 miles from town. Can ship on Mo. Pac., R. I., or Santa Fe. Foundation stock selected from three of the great herds of Ohio.

CLOVER BLOSSOM SHORTHORNS

Herd headed by the Cruickshank bulls Imp. Nonparell Victor 132573

Sire of the champion calf and junior champion bull of 1900

Grand Victor 115752 himself a show bull and sire of prize-winners

FEMALES are Scotch, both imported and home-bred, pure Bates, and balance 8 to 6 Scotch-tops.

Stook For Sale BEO. BOTHWELL, Nettleten, Caldwell Co., Ma. On Burlington Railroad.

CATTLE.

COBURN HERD OF RED POLLED CATTLE. Gee. Groenmiller & Son, Centropolis, Franklin Co., Kans.

FINE RANCH AND HERD OF HEREFORD CATTLE ... FOR SALE

FINEST STOCK FARM IN KANSAS FINEST STOCK FARM IN KANSAS.

It is located in Barber County, 4 miles from railway station; daily mail. It consists of 8,160 acres, about 300 in cultivation. Improvements consist of an 8-room house, chicken house, cemented cellar and milk-house, laundry house, coal house, modern horse barn 34 by 70, holds 20 tons hay in loft, implement and wagon house 16 by 65 feet, blacksmith shop, two large cattle barns, granary holds 10,000 bushels corn, herdsman house, stock scales, cattle sheds, water piped into barn from large spring. This property is fenced with 5 and 6 wires, posts all black locust and placed 16½ ft. apart; it is divided into seven pastures, every pasture having good, pure, soft spring water in it. There is one creek that runs through middle of this property for distance of one mile. This spring and creek afford the same amount of water the year round; plenty of timber. Have 200 registered Hereford cattle on the farm representing all the best Hereford families. Will sell this ranch with or without the cattle.

D. L. Taylor, Sawyer, Ks

HORSES AND MULES.

HENRY AVERY & SON. BREEDERS OF

PURE PERCHERONS.

The largest herd of Percheron horses in the west and the best bred herd in America. A choice collection of young stallions and mares always on hand. Prices con-sistent with quality. Address, or come and see, at Wakefield, Clay County, Kansas.

PEROHERON HORSES, and ABERDEEN-ANGUS OATTLE. GARRETT HURST, Breeder, Zyba, Sumner County, Kansas. Young stock for sale of either sex. All registered.



FOR SALE!

20 Jacks and Jennets consisting of four 2-year-old Jacks and three sucking coits, and thirteen well-bred Jennets. Will close the en tire lot at a bargain to the buyer. Address

W. S. Wells. Platte City, Mo.

Prospect Farm.



H. W. McAFEE, Topeka, Kansas, Breeder of

OLYDESDALE HORSES, AND SHORTHORN OATTLE FFor Sale—25 Clydesdales, including 3 registered stallions of serviceable age, and 13 mares.

Inspection and correspondence invited.

Cheyenne Valley Stock Farm.



F. H. Schrepel, Ellinwood, Kans., -Breeder of-

PERCHERON HORSES, AND POLAND-CHINA HOGS

For Sale—Twelve young stallions and a few mares Inspection and correspondence invited.

Ladies Our monthly regulator never fails. Box FREE. DR. F. WAY, Bloomington, Ill BED-WETTING CURED. Sample free. DR. When writing advertisers, mention Kansas Farmer.

SHEEP

FORTY THOROUGHBRED CHEVIOT SHEEP BOTH EWES AND RAMS. Also Several D. S. Polled Durham Bulls. Address A. E. BURLEIGH, Knox City, Knox Co., Mo

ANOKA FLOCKS.

Cotswolds and Rambouillets. Foundation for flocks a specialty. Correspondence and inspection invited. GEO. HARDING & SON, Waukesha, Wis.

MCFADDEN BROS.

WEST LIBERTY, IOWA,

Breeders of PRIZE-WINNING

Shropshire Sheep.

Choice lot of rams and ewes—both Canadian and home bred—for sale. Can supply car lots. Write for our low prices.

Acclimated Merinos

300 Rams, 400 Ewes, Rambouillets, Franco-Merinos, and Merinos big and smooth. Will sell them right E. D. KING, Burlington, Kas

FERRETS.

300 FERRETS FOR SALE.

Farmsworth Bros.,

Elk Falls,

Kansas

8000 FERRETS will clean your place of rats, and drive rabbits from burrows. Pure-blooded and finest working strain in America. Send for wholesale list and book guide to care and working. S. & L. Farnsworth, New London, Ohio.

SCOTCH COLLIE PUPS.

SCOTCH COLLIE PUPS FOR SALE.

Sable, sable and white and sable black and white. All out of high pedigreed stock. white. All out of high pedigreed stock.

The sire of some of these pups is a great
grandson of Southport Perfection, the finest
deg in the world, for which J. Pierpont Morgan,
paid \$8,500. Another sire is a grandson of
Sefton Hero also owned by J. Pierpont Mogan,
Prices \$5,\$10 and \$15. Write your wants quick.

LIVE STOCK AUCTIONEERS.

H. D. Nutting, Prop. Wa'nut Grave Farm. Emporia, Ks.

CAREY M. JONES.

Live Stock Auctioneer, Davenport, Iowa. Have an extended acquantance among stock breeders. Terms reasonable. Write be-fore claiming date. Office, Hotel Downs.

HARRY W. GRAHAM, Live & Stock & Auctioneer

Chillicothe, Mo. Fine Stock Sales a Specialty. Up to date on breeding and values. SALES MADE EVERYWHERE.

Live Stock Auctioneer COL. J. N. HARSHBERGER

Lawrence, Kansas. Special attention given to selling all kinds of pedigreed stock; also large sales of graded stock. Terms reasonable. Correspondence solicited, Mention Kansas Farmer.



R. L. Harriman LIVE STOCK AUCTIONEER. Bunceton, Mo.

SALES made everywhere. Thoroughly posted and up-to-date on breeding quality and values. Have a large acquaint-ance among and am selling for the best breeders in the country. Terms low. Write for dates.

AFE BURGER Wellington, Kans. LIVE STOOK **AUOTIONEER**

Sales Made Anywhere. I am booked for some of the best combination sales of high-class stock held in America. Posted on pedi-grees and individual merit. Wide acquaintance with breeders in Kan-sas, Okiahoma, Indian Territory and Texas. Wire or write for dates,

JAMES W. SPARKS, Live Stock Auctioneer Marshall, Mo. Sales Made Anywhere.



Have been and am now booked for the best sales of high-class stock held in America. Thoroughly posted on pedigrees and individual merit. Large acquaintance among the leading stock-breeders of America. Terms reasonable. Write me before claiming your date.

FOURTH ANNUAL PUBLIC SALE

DUROC-JERSEY

TO BE HELD AT FARM, AT WHITING, KANS., OCT. 13, 1902.

A DRAFT OF 100 HEAD

Consisting of 20 open Sows of fall and winter 1901 farrow, and 80 head of Tops of our spring 1902 crop of both sex, sired by the following five grand old herd males, and from dams of equal blood lines and individual merit: Woodburn 3841, Fleet R. 6225, Kid Wolford 8299, Jimmeson L. 10405, and Fleet R. 2d 9945. Every animal a good one, first-class, and useful. Write at once for free Catalogue, and remember we value your presence on Oct. 13.

COL. JAS. W. SPARKS, COL. BERT FISHER, Aucts. ALEX. DUNN, JR., Clerk.

Newton Brothers,

Whiting, Kansas

MEADO WBROOK HERD OF PURE-BRED

POLAND-CHINA

Grand Combination Sale

POLAND-CHINA SWINE

Clay Center, Kans., Wednesday, October 15, 1902.

60 head of Spring Boars and Sitts will be sold, tops from the herds of the following breeders:

C. M. Garver & Son, Abilene, Kans.; O. B. Smith & Son, Cuba, Kans.; J. M. Baker, Narka, Kans.; C. M. McKeever, Hubble, Neb.; J. G. Hutchinson, Esbon, Kans.; John Crawford, Lebanon, Kans.; H. G. Sims, Smith Center, Kans.; Chas. Morrison, Phillipsburg, Kans.; W. R. Dowling; Norcetur, Kans.

No such opportunity to secure the cream of the breeder's art from these hardy Western herds will be offered again this season. Every breeder can find something in this offering that he needs. Come and inspect stock whether you intend to buy or not. Sale under cover at 1 o'clock p. m.

.....

Col. J. N. Harshberger, Col. John Brennan, Col. Sam Langworthy.... J. R. JOHNSON Manager, Clay Center, Hans.

MAMMOTH STOCK SALE! 300 HEAD HIGH-GRADE HORSES AND HEREFORD CATTLE

I will sell at Public Auction, at the Topeka Stock Yards, at the foot of Jefferson Street, 2 blocks east of Wolff Packing House, on

TUESDAY, OCTOBER 7, 1902. 1 bay mare, 5 years old, 1,200 pounds.
1 bay mare, 5 years old, 1,100 pounds.
1 gray mare, 8 years old, 1,300 pounds.
1 bay mare, 6 years old, 1,100 pounds.
2 bay mares, extra good drivers.
1 sorrel horse, saddler and driver, 4-yr-old.
1 roan horse, 9 years old.
1 sorrel horse, 7 years old, 1,400 pounds.

- 10 head cows, some fresh.
 10 2-year-old heifers, springers.
 50 head 2-year-old steers.
 100 head 1-year-old steers.
 25 head 1-year-old heifers.
 50 head steer calves.
 25 head heifer calves.

These cattle are mostly high-grade Herefords, and dehorned. An extra good lot. Horses are all broke single and double. Sale at 10 clock Sharp.

TERMS.—Nine months time at 4 per cent interest from date of sale. Four per cent off for cash.

Cattle will be cared for free of charge until noon of day following sale.

Doi, Goo. R. Hungate, Salesman.

Stock Yards Pavilion, Kansas City, Mo., October 20, 21, 22, 23. 24, 25, 1902

WITH THE

American Berkshire Association.

Great Attractions Assured in the way of Liberel Prizes and Large Prices at this Royal Show and Public Sale of

BERKSHIRES.

Six grand national exhibitions of beef cattle and hogs at same time and place, viz: Shorthorn cattle, Hereford cattle, Galloway cattle, Angus cattle, Berkshire hogs, Poland-China hogs. The cash and special prizes offered said breeds have never been equaled, and exceed \$30,000.00—Thirty Thousand Dollars—\$30,000.00.

Excursion rates on all railroads. 150—Top Bred Berkshires—150 will be sold in connection with the great shows named above from the leading herds of Illinois, Indiana, Missouri, Kansas, lowa, Texas, etc. The great bargains of the season in Berkshires will be secured at the above sale.

CHARLES F. MILLS, Springtleid, Illinois. Superintendent of Sale, Geo. W. Jessup, Rockville, Ind.; Superintendent of Show, June K. King, Marshall, Mo.; Committee in Charge, N. H. Gentry, Sedalia, Mo., C. A. Stannard, Emporia, Kans., Charles F. Mills, Springfield, Ill.

I will sell at Public Auction, at my farm, one mile north of Toronto, Kans., on

Wednesday, October 15, 1902

130 HEAD OF HIGH-GRADE CATTLE 130

42 steers from 1 to 3 years old, 40 cows, 20 2-year-old heifers, 10 yearling heifers, 25 calves, 1 registered Red Polled bull, 1 pure-bred Durham bull, 10 head of horses and colts, 6 head of 2-year-old mules, 5 head of jennets—good as can be found—1 Spanish jack, 1 Percheron stallion, 40 hogs. My farm is also for sale.

TERMS OF SALE:—12 months' time will be given on approved bankable paper to draw 7 per cent interest if paid when due, if not paid when due, to draw 10 per cent from date of sale. Lunch stand on the grounds. Sale begins at 10 o'clock.

FREEMAN & WOOD, Auctioneers.

CLOSING OUT SALE

Standard-Bred Horses

At Valley Grove Stock Farm, 6 Miles North of Walker, Mo.,

Friday. November 7, 1902. The offering includes Silver Simmons 2.18½ (grandson of Simmons 2.28), Eagolyte 29215 (son of Onward 1411, to be sold privately, 8 mares by Onward 1411, 6 mares by Norval 2.14½, and 15 weanlings, yearlings, 2-year-olds, and 3-year-olds by Silver Simmons 2.16½ and Eagolyte, out of these Onward and Norval mares. ... Transportation furnished to and from farm. Lunch on grounds. For Catalogues, address

Col. R. L. Harriman, Auctioneer. E. T. LETTON & SON, Walker, Vernon Co., Mo.

Axline's Annual Fall Sale

....OF....

Poland=Chinas

WILL BE HELD AT

OAK GROVE, MO., MONDAY, OCTOBER 20, 1902.

The consignment will be rich in breeding, and supurb in individuality. There will be 68 head, about equally divided as to sex. They are out of matured dams, and by such noted sires as Chief Perfection 2d, Corrector, Ideal Sunshine, Winning Sunshine, Chief Eclipsed, R.'s Perfection, Missouri's Black Perfection, and the \$1,000 Corrected. ... Send for Free Catalogue giving full description and pedigree of each individual. ... Send bids to either Auctioneer, in care of Axine Auctioneer, in care of Axline

E. E. AXLINE, R. F. D. OAK GROVE, MO.

Jas. W. Sparks, D. P. McCracken, H. O. Correll, W. D. Ross, Judge Chinn, J. N. Harshberger.....

American Royal Cattle and Hog Show BY THE

Get ready to exhibit at the big Berkshire show. Get ready to sell hogs at the big Berkshire sale. Get ready to attend the big Berkshire show and sale.

For sale catalogue write at once to Secretary American Berkshire Association,

COL R. L. Harriman, Augitioneer. E. T. LETTON & SON, Walker, Vernon Co., Mo. & WHEN WRITING ADVERTISERS MENTION KANSAS FARMER,