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BREEDERS' DIRECTORY

Oards of four lines or less will be inserted in the Breeders' Directory for \$15 per year or \$3.00 for six months; each additional line, \$2.50 per year. A copy of the paper will be sent to the advertiser during the continuance of the eard.

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300 Head ³ and ⁴ year old Steers in good fiels and splendid quality. Will sell in carload lots, on terms to suit. Come and see me, or write. Mention KANSAS FARMER. Address

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Breeds and has for sale Bates and Bates-topped SHORT-HORNS. Waterloo, Kirklevington, Filbert, Cragg, Princess, Gwynne, Lady Jane and other fashionable families. The grand Bates bulls Winsome Duke 11th 115137 and Grand Duke of North Oaks 11th 115735 at head of the herd. Choice young bulls for sale now. Visitors welcome. oice young bulls for sale now. Visitors welcome ddress W. L. CHAFFEE, Manager.

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Shropshire Rams and Ewes for Sale.

so Oxford and Delaine Merino, from 1 to 3 years Write for prices to DORSEY BROS., Perry, Pike Co., Ill.



Quality Herd Poland - Chinas. World's Fair. Darkness Challey 2d and Ideal U. S. by Ideal Black U. S. head the herd. Both first-prize winners Kansas State fair 1894. Come or write your wants. Willis E. Gresham, Burrton, Kas. Secretary Kansas Swine Breeders' Association

Agricultural Matters.

HAY.

Henry A. Robinson, Statistician of the United States Department of Agriculture, writes of the hay crop of the country and says:

"The grass crop is the most valuable of any in the country, and while the hay is worth far less than the pasturage, it nevertheless produces an overwhelming proportion of growth in flesh of all animals. In some sections of the country the climate is such that the farmer is compelled to house and feed his stock more than half the time, and unless he has plenty of hay this is an enormous expense, and increases the cost price of his farm animals without a corresponding increase in their value. An abundance of meadow and pasture land in any section indicates a healthy and prosperous condition, and the farmer who has a large area of such land has the elements of wealth at hand. He not only raises his cattle and stock on grass, but they return to the land those fertilizing materials which keep the soil in good condition and insure reliable re-

"In some portions of the country hay has been neglected in the struggle to realize immediately from special crops, which has usually had the effect of impoverishing the land and not infrequently the former

quently the farmer.

"Our country presents such a diversity of climate and soil that grasses that thrive and make an abundant crop in one section are practically of no value in another, and there is no doubt that with a judicious selection of varieties and proper preparation of the soil the hay crop would be materially increased.

"Any effort to secure increased facilities for raising and handling hay is a step in the right direction and should be a benefit to every farmer in the land.

The following table, showing the area and product of hay in the United States for 1894 and the value of the product may be of interest in this connection:

CANAL TO STATE OF THE STATE OF	Annos	Tons	Tra luca
Malma	Acres.	Tons.	Value.
Maine	1,227,702	1,166,317	\$11,106,642
N. Hampshire	640,832	608,790	6,362,295
Vermont	908,126	1,089,751	10,832,125
Mass	636,347	801,798	12,427,869
Rhode Island	86,543	64,907	1,059,931
Connecticut	517,699	450,393	7,008,193
New York	5,297,087	6,197,592	59,368,739
New Jersey	545,554	586,443	8,262,982
Pennsylvania.	2,993,275	3,532,065	39,947,055
Delaware	61,524	79,981	1,199,715
Maryland	343,582	355,949	1,199,715 36,961,712
Virginia	656,412	498,537	5,927,605
N. Carolina	104,525	238,561	2,607,472
S. Carolina	457,594	241,119	2,592,029
Georgia	150,835	174,992	2,166,401
Florida	6,719	8,264	134,290
Alabama	72,803	195,112	1,855,515
Mississippi	73,902	135,980	1,814,927
Louisiana	36,532	71,603	761,856
Texas	457,214	608,095	4,633,684
Arkansas	188,066	248,247	2,192,021
Tennessee	435,510	513,902	5,791,676
W. Virginia	546,260	557,185	5,939,592
Kentucky	583,937	735,762	7,703,428
Ohio	2,312,254	2,936,563	24,813,323
Michigan	1,702,806	2,043,867	18,472,038
Indiana	2,008,671	2,551,012	19,336,671
Illinois	2,408,956	2,745,184	22,807,383
Wisconsin	1,898,733	2,487,340	19,799,226
Minnesota	1,602,614	1,634,697	8,663,894
Iowa	4,693,307	3,452,115	25,308,990
Missouri	2,532,316	2,152,469	16,832,309
Kansas	3,305,889	2,545,535	13,364,059
Nebraska	1,095,992	1,124,535	8,006,689
S. Dakota	2,040,833	1,918,383	8,210,679
N. Dakota	424,087	505.735	1,957,194
Montana	376,639	444,767	3,188,979
Wyoming	224,765	361,872	3,618,720
Colorado	786,804	1,786,045	13,466,779
New Mexico	39,846	74,910	861,465
Arizona	36,219	60,919	791,028
Utah	179,575	452,529	2,016,661
Nevada	153,602	620,552	4,409,002
Idaho	226,370	552,716	2,485,587
Washington	372,956	764,560	5,642,453
Oregon	642,303	1,284,606	7,527,791
California		3,213,647	30,529,647
			Uncertainty (Co.)

48,321,272 54,874,408 \$468,578,321

"From 1880 to 1890 there was a steady increase both in acreage and production of hay in almost all sections of the country. The area mown in 1890 shows an increase of 22,317,743 acres, or 72.9 per cent. over that of 1880, and the production increased 31,680,769 tons, or 90.1 per cent. This increase naturally affected the value, which fell from \$11.30 per ton in 1880 to \$7.74 in 1890. The average production per acre, however, was 1.26 tons, against 1.15 in 1880, which, in a great measure, offset the reduction in value.

"The area mown in 1894 as compared with that of 1890 shows a decrease of 4,657,525 acres, or 8.7 per cent., while the production fell off 11,057,072 tons, or 17.9 per cent. The average value per ton, however, was slightly greater, being \$8.54, against \$7.74 in 1890, while the average production per acre fell from 1.20 tons in 1890 to 1.14 tons in 1894.

"The average condition, as reported August 1, 1894, was 24.4 per cent. below the normal. The condition in New England and Middle States and West Virginia ranged from 83 in the lastnamed State to 100 in Maine, the area

in these States being about the same as 1893. In the Gulf States the condition ranged from 90 in Mississippi to 101 in Texas.

"The States bordering on the Great Lakes, and those lying along the Ohio, Mississippi and Missouri rivers all showed a reduction of area, and conditions, though varying, indicated a low average of yield. This was especially the case in the terribly drought-stricken States of Iowa, Nebraska and South Dakota. In the Pacific coast region there was on the whole an increase of area, and the condition, except in California, was generally high. Speaking for the whole country, the quality of the hay harvested in 1894 was excellent, and, though the area and production was less than that of 1890, it must not be inferred that the crop is a decreasing one; on the contrary, the crop of 1894 shows a healthy increase over that of 1880, the increase in area being 17,-690,218 acres, or 51.8 per cent., and in production 19,732,697, or 56.1 per cent., and had the size of the crop kept pace with the increase in the quality of the product the hay crop of 1894 would have been one of exceptional value."

Winter Oats at the North.

In a recent bulletin, C. S. Plumb, Director of Purdue University Agricultural Experiment Station, says:

"The sowing of a certain class of oats in the South in the fall has been a practice for many years. Of recent years some attempt has been made to grow these winter oats in the North. Ten years ago the writer experimented win several varieties, at the New York Experiment Station at Geneva, but all were winter-killed.

"Attempts to grow winter oats in the North as a rule have been unsuccessful. The Wisconsin and Michigan stations report them unable to endure the winter. At the Indiana station, on about latitude 40½, a good stand in the field was entirely killed last winter when wheat grown by the side of it under similar conditions was uninurjed. Mr. E. S. Carman grew winter oats from Virginia seed during 1894-95 with success in northern New Jersey, the seed being sown September 15.

"Winter oats have been extensively tried in southern Indiana, with varying success. The writer has received replies to letters on this subject from a number of growers. Mr. O. M. Foster, of Jackson county, reports considerable sown. From one-half to one-third the fields were winter-killed and the ground planted to other crops. The failure was due to late sowing and dry weather last fall. The farmers of our section think they are all right; they have been sowing in this county for five years and in the majority of cases have proved a paying crop. Mr. John T. Cobb, of Jackson county, reports they came through the cold weather as good if not better than wheat. Seed sown the last of September or later killed badly. In this section they should be sown the last week in August or the first week in September. N. D. Gaddy, of Jennings county, reports the winter oats in this vicinity, so far as heard from, as badly damaged by the severe winter. J. H. Hodapp, of Jackson county, writes: 'They suffered in this section from dry weather and the severe winter, but the damage to them was not so great as to the wheat.' J. R. Tinder, of Jackson county, reports that 75 per cent. of the crop sown in 1894 was winter-killed; though the seedings of the falls of 1892 and 1893 did well. J. B. Smith, of Jennings county, writes of both success and failure. He thinks they are no better than spring oats in this climate and are liable to be winter-killed. A seed firm in Indianapolis has extensively advertised winter oats, claiming they would withstand the severest winter weather, which is not true.

winter weather, which is not true.

"Unquestionably, winter oats are being grown successfully in southern Indiana, but there is still uncertainty as to how they will survive the winter. In those localities where winter oats have not been planted, it will be advisable to go slow. Experiment on a small scale first. Plant a peck of seed. It is to be hoped winter oats may gradually become acclimated northward, but as yet the writer knows of no case where they have survived the winter north of New Jersey and Cincinnati, Ohio."

Human life is held too cheaply when the individual who needs a tonic for his system, seeks to cover his wants by purchasing every new mixture that is recommended to him. Remember that Ayer's Sarsaparilla has a wellearned reputation of fifty years' standing.

The Feeding Value of Oats.

What is the best and cheapest feed, under existing circumstances, is a question which will, in the changing prices of products, be an ever present one. The Purdue University Experiment Station has furnished some information which will aid the farmer who desires to make the most product for the least money. The Director says:

"The price paid farmers for oats at the present time is lower than for many years, perhaps the lowest in the history of the United States. From 1870 to 1895, the lowest average value for oats in the United States in any one year was 22.9 cents for 1889. The quotations on oats in Chicago markets to-day are 10 to 12 cents less per bushel than for a year ago at this time. At LaFayette, Ind., farmers are paid 16 cents per bushel for No. 2 white oats, and extra choice old oats can be bought of commission men for 20 cents.

"One hundred pounds of average oats and corn are each supposed to containt hef ollowing amounts of food nutrients that are digested by the animal body:

"Protein is the flesh or muscle-forming material, while carbohydrates and fat are important fat-forming foods. Of the two foods, protein is the most expensive to produce. The so-called 'rich' foods, are so designated on account of having a larger percentage of protein than the others, and they are usually the highest-priced foods in the market. Oil meal is a good example of this class of foods containing a large per cent. of protein.

"From the above it can be seen that 160 pounds of oats contain decidedly more flesh or muscle-forming fodo than 100 pounds of corn.

"On the basis of LaFayette quotations, 100 pounds of oats would fetch 50 cents, and 100 pounds of corn 48 cents.

"In view of these extremely low prices, the Director believes feeders will do well to feed oats, rather than sell them and buy bran, which is now 70 cents per 100. No other grain is superior, if equal to oats as a food for working horses. For growing cattle or sheep or milch cows it is most desirable, and should be much more generally fed than it is. Instead of feed-ing corn as the only grain; a decided improvement would be a mixture of two parts of ground corn and one part While oats are less referred to than other common grains, in recommending feeding rations, it is not because of inferior value, but rather from the cost of this food. At the present time, however, the low price will warrant its more extensive use. In a list of 100 rations used by prominent dairy cattle feeders in the United States and Canada, published by the Wisconsin Experiment Station, oats are fed thirty-five times. Of nine Canadian feeders, eight added ground oats to

Cowley County Fair.

Special Correspondence Kansas Farmer.

The thirteenth annual exhibition of the Cowley County Fair Association was held at Winfield, on September 25, 26 and 27. Credit is due unto each exhibitor at this fair, for their displays were all choice and deserving special attention, regardless of what "might have been."

The Silver Creek herd of Short-horn cattle, owned by J. F. Stodder, of Burden, Kas., was on exhibition. It is a fine herd, representing the best families and a lot that the owner may well feel proud in possessing. The bull at the head of Silver Creek herd is Champion's Best 114671 by Valley Champion 110477 out of Red Queen (Vol. 39), she by imported Scotchman (105418). Not a hog or sheep on exhibition, nor a draft horse. What a contrast this was to the crowded condition of this same fair ground several years ago, when pens and stalls and all available space was at a premium, with an overflow of exhibits in all departments.

Miami County Fair.

Special Correspondence Kansas Farmer.

The Miami County Agricultural Society held its seventh annual fair, at Paola, September 24 to 27. To enumerate the choice exhibits here seen would require too much space, but the aggregation of good things was an epitome of the county, and Miami is one of the very best in the State—productive soil, well improved farmsteads, fine forests, ever-flowing streams, excellent water, natural gas, ample railway facilities,

"Saved My Life"

A VETERAN'S STORY.

"Several years ago, while in Fort Snelling, Minn., I caught a severe cold, attended with a terrible cough, that allowed me no rest day or night. The doctors after exhausting their remedies, pronounced my

case hopeless, saying they could do no more for me. At this time a bottle of

AYER'S

Cherry Pectoral was sent to me by a friend who urged me to take it, which

I did, and soon after I was greatly relieved, and in a short time was completely cured. I have never had much of a cough since that time, and I firmly believe Ayer's Cherry Pectoral saved my life."—W. H. WARD, 8 Quimby Av., Lowell, Mass.

AYER'S Cherry Pectoral

Highest Awards at World's Fair.

AYER'S PILLS cure Indigestion and Headache

numerous trading points, nearness to Kansas City markets, rich tame pastures, choice stock, good school and church privileges, and above all, she has a bright, intelligent, energetic and thrifty class of people.

Among the exhibitors from outside of Miami county appeared H. Davison & Son, of Princeton, and Wm. Higdon, of Richmond, both exhibiting Poland-China swine and each lot prize-winners. D. M. Cherry, of Paola, breeder of Poland-China hogs, had a choice exhibit. R. H. Sherar, of Paola, had an exhibit that was indeed creditable, and one that attracted the attention of every farmer and stockman, whether already supplied with wind pumps or contemplating a purchase of same.

Do not wear impermeable and tight-fitting hats that constrict the blood-vessels of the scalp. Use Hall's Hair Renewer occasionally, and you will not be bald.

The Premium Gasoline Engine.

The engine which took the highest premium at the Garden City fair and irrigation convention was the Witte made by the Witte Iron Works Co., of Kansas City. Expert irrigationists pronounced this engine, which was one of their latest, to be the best engine now built. Such improvements as exhaust muffler, easy starter, timing valve, automatic speeder and improved oil filter, were all found thereon, and the Witte Co. is to be congratulated on the unanimous opinion of the five judges who awarded them the blue ribbon. It was a delight to see the water forced high in air and discharged with the pressure of a fire hydrant, many feet away. The Witte Co. recently placed two other fine plants, one at Wakeeney, and the other at Ellis, Kas. As a sample of the perfection and reliance of this engine, it is necessary simply to state that the engine on exhibition was shipped late but soon after it arrived it was running without a hitch, and continued so the entire week.

Kansas City--Cincinnati.

(Wabash and B. & O. S. W.)

A vestibule sleeping car leaves Kansas
City Union depot every day at 6:20 p. m.,
via the Wabash railroad, running through
to Cincinnati, O., without change, via B.
& O. S. W. railroad from St. Louis, arriving in Cincinnati at 11:30 next morning,
making the run in seventeen hours and
ten minutes, the fastest time ever made.
On this same train are through sleepers
to Washington, D. C., Baltimore and Philadelphia, and passengers for points east
of Cincinnati can step from the Kansas
City-Cincinnati sleeper into the through
sleepers any time after leaving St. Louis.
Passengers for Louisville and points South
leave the sleeper at North Vernon at 9:34
a. m.

For Kentucky and South this sleeper is

a great convenience.

The Wabash is the only road offering this through car service. Sleeping car berths secured at Wabash ticket office, Ninth and Delaware streets, or write to

Ninth and Delaware streets, or write to
H. N. GARLAND,
Western Passenger Agent,
Kansas City, Mo.

The Stock Interest.

THOROUGHBRED STOCK SALES.

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

OCTOBER 22—J. H. Pegram, Virgil, Kas., Poland-Chins swine.
OCTOBER 1—C. G. Sparks, Mt. Leonard, Mo., and G. L. Davis, Elimwood, Mo., Poland-Chins swine.
OCTOBER 29—Kirkpatrick & Son, Connors, Kas., Aberdeen-Angus cattle and Poland-China swine.
OCTOBER 29—Chas. Cannon, Harrisonville, Mo., Poland-China swine.
OCTOBER 30—L. N. Kennedy, Nevada, Mo., Poland-China swine.

The Electrozone Hog Remedy.

The Southern Cultivator has the following correspondence, by J. D. Crenshaw, of Alabama, concerning electrozone, the new cholera remedy, from which we extract the following:

"With the prospect of making an ample supply of meat for another year almost definitely certain, only those farmers who have had this hope raised, and who have seen their herd swept away as in a day, can understand and fully appreciate my feelings when, on about the 5th day of August, the hog cholera broke out amongst some fortyfive animals, all booked for the smoke-house on the first cold snap in December, or perhaps earlier.

"In this section, Big Bear creek, Colbert county, Alabama, the cholera has been making havoc for the past six weeks among the hogs. Premises after premises among our farmers have been cleared with unerring certainty. With a dread, born of a lifetime experience

closely analogous to the hog cholera, we moistened the dough fed our chickens, and during the past month have not lost one to which we have fed the medicated food. In addition to curing both hog and chicken cholera, I have found it a valuable remedy in distemper among our horses and mules

"What is Electrozone?-Electrozone is pure sea water, decomposed by the passing through it of the electric current. In the process, the chlorides and bromides, and other elements of sea water, are changed into hypo-chlorites and hypo-bromites and other com-pounds, which readily act upon diseased tissues, killing germ life and restoring a healthy condition. It is, therefore germicide, antiseptic, disinfectant and deodorant. It is claimed to be a sovereign remedy in diphtherfa, and can be taken internally in full strength, or in dilution, as it answers best in most

"How Used for Hog and Chicken Cholera.—Before the hog is past eating, and most of them are nearly dead when this is so, electrozone should be mixed with all food and drink. When far advanced, electrozone should be drenched down them in six to eightounce lots, half and half of water and electrozone. The same proportion should be injected by enema into the bowels. If meditrina be used, dilute with three to four volumes of water. It is important to keep the droppings from the hogs removed, and the floor -preferably an elevated plank onesprinkled with electrozone.

three out of four, with strong com-petition. So we think he has a good show record."

Publications of United States Department of Agriculture for September.

of Agriculture for September.

NOTE.—The Department has no list to whom all its publications are sent. The Monthly List of Publications will be mailed to all applicants, from which they may select only such reports and bulletins as are likely to be of interest to them, which will be mailed to their address on receipt of their application to the Secretary of Agriculture, Washington, D. C., except for the maps and bulletins of the Weather Bureau; requests for these should be directed to the Chief of that Bureau. The serial publications of the Department are not for general distribution. All requests for the same are referred to the Division whence the publication emanates, and applicants will be instructed how to secure regularly the serial desired.

Yearbook of the Department of Agriculture 1804.

how to secure regularly the serial desired.
Yearbook of the Department of Agriculture, 1894.—This volume is divided into three sections: First, the Report of the Secretary of Agriculture for 1894, glving a general account of the operations of the Department during the year. Second, a series of papers, prepared for the most part by the chiefs of bureaus and divisions and their assistants, discussing either the general work of their bureaus and divisions or particular lines of work with special reference to interesting and instructing the farmer. Third, an appendix made up of statistical tables and information useful for reference, compiled in the various bureaus and divisions.

The World's Markets for American Pro-

the various bureaus and divisions.

The World's Markets for American Products—Canada. (Bulletin No. 4, Section of Foreign Markets.)—This bulletin is the fourth of a series designed to show the world's markets for American products to all those who are sufficiently interested in increasing the demand therefor in foreign lands.

An Example for American Farmers and Dairymen. (Circular No. 4, Section of For-

Take Care

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

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

of Anmila Pathology.)—A techincal circular giving description of the disease, economic importance, and diagnosis.

Experiment Station Record, Vol. VII, No. 2. (Not for general distribution.)

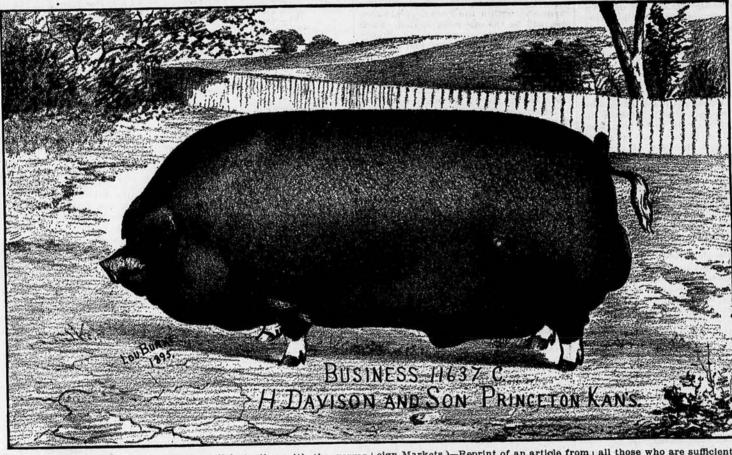
Monthly Weather Review—March, 1895.
Studies of Weather Types and Storms. No. 1.—Types of Storms in January. By E. B. Garriott. (Issued by Weather Bureau.)

Charts of the Weather Bureau. (Size 19 by 24 inches.)—Weather Crop Bulletin (series of 1895), reporting temperature and rainfalls with special reference to their effect on crops. (Nos. 25, 28, 27 and 28, for the weeks ending September 2, 9, 16, and 23.) Semi-daily Weather Map. showing weather conditions throughout the United States and giving forecasts of probable changes.

REPRINTS.

REPRINTS.

Addresses on Road Improvement. By Roy Stone, Special Agent and Engineer. (Circular No. 14, Office of Road Inquiry.)
The World's Markets for American Products—France. (Bulletin No. 3, Section of Foreign Markets.—This bulletin is the third of a series designed to show the world's market for American products to



of hog cholera, I had folded my arms in submission-ready to bow to the inevitable, when it was suggested to me that a new antiseptic called electrozone might cure the cholera. I procured it, and hastily made an effort in ex-perimenting with it. After an experi-ence of nearly a month, during which time about every hog on our premises has had cholera, we have lost three out of a herd of forty odd killing ones.

"Electrozone has proven to be in these experiments a specific, for which I go on record as saying it will cure hog cholera, and will prove of incal-culable benefit to pork-producers throughout the land.

"So prompt and specific a remedy it I cite the following, which to is little less than miraculous: On the evening of the day I got the electrozone (10th of August), and had dosed sick hogs, I thought, to see what effect would follow, went to the dead ground where we had hauled off a fine animal as hopelessly gone. I drenched down the throat of this one a mixture of meditrina (concentrated medicinal electrozone) and water—two ounces meditrina and six of water. The result of this was all but a miracle, as in three hours this animal got up and walked about, and during the night made his way back to the barn, and is to-day perfectly well.

"My experience has been, through all the epidemics of hog cholera in the past, that chicken cholera has been coexistent with it. This season has been no exception, and our chickens were Thinking the disease to be

pings are all but alive with the germs of the disease.

"In the treatment of chickens, we have found that to mix a teacupful of electrozone with half a gallon of corn meal dough and feed to the chickens is an easy and certain means of getting the electrozone in contact with the seat of the disease-through the alimentary tract.

"The writer of this recently heard Mr. E. A. Woolf, a New York chemist, and discoverer of Electrozone, read a paper before a scientific body on the uses of electrozone, in which he hinted at the therapeutic action of electrozone in human cholera. It was from this suggestion that I procured the electrozone and made the experiments in the hog and chicken cholera, with the results as herein above given.

"Note.-Meditrina is the concentrated medicinal form of electrozone. When taken internally, to be diluted, three to six times its volume of water, though it may be taken in full strength. Electrozone may be taken without dilution, and yet may be diluted, one to four times its volume, with very certain re-

The illustration shown herewith, of Business, is a representative Poland-China boar, owned by that splendid Kansas breeder, Mr. H. H. Davison, of Princeton, Kas. Of the recent fair at Paola, Kas., Mr. D. writes: "I took first in class and sweepstakes. I have shown him six times and took six first premiums, and entered him four times for sweepstakes and have taken

eign Markets.)—Reprint of an article from the Journal of Commerce and Commercial Bulletin of the city of New York, giving agricultural conditions and prices in several European countries.

Monthly Crop Report—September, 1895. (No. 130, Division of Statistics.)—There is appended to a part of the edition of the above report the transportation rates, as required by law, together with certain rallroad and transportation statistics.

Organization of the United States Department of Agriculture and List of Exhibits at the Cotton States and International Exposition, Atlanta, Ga., September 18, 1895, to January 1, 1896. (Division of Publications.) For distribution at Atlanta Exposition.

Analysis of Cereals Collected at the World's Columbian Exposition, and Comparison with Other Data. By Harvey W. Wiley, Chief of the Division of Chemistry.)

Agricultural Experiment Stations: Their Objects and Work. By A. C. True, Director of the Office of Experiment Stations. (Bulletin No. 26. Office of Experiment

Agricultural Experiment Stations: Their Objects and Work. By A. C. True, Director of the Office of Experiment Stations. (Bulletin No. 26, Office of Experiment Stations.)

Soil Moisture. A Record of the Amount of Water Contained in Soils during the month of May, 1895. (Bulletin No. 1, Division of Agricultural Soils.)

The Hessian Fly. By C. L. Marlatt, First Assistant Entomologist. (Circular No. 12, Division of Entomology.)—This circular treats of the economic importance and general characteristics of the Hessian fly, its distribution, natural history and habits, effect on wheat, natural enemies, and preventive and remedial measures.

Revision of the Aphelininae, a Sub-family of Hymenopterous Parasite of the Family Chalcididae. By L. O. Howard, Entomologist. (Bulletin No. 1, Technical Series, Division of Entomology.)—A technical bulletin intended especially for working entomologists, learned societies and periodicals, and libraries.

Contributions from the United States National Herbarium. Flora of the Sand Hills of Nebraska. By P. A. Rydberg. (Not for general distribution.)

A Nodular Taeniasis of Fowls. By Veranus A. Moore, Chief of the Division

all those who are sufficiently interested in increasing the demand therefor in foreign lands.
Wide Tires. Laws of Certain States Relating to Their Use, and Other Pertinent Information. Compiled by Roy Stone, Special Agent and Engineer. (Bulletin No. 12, Office of Road Inquiry.)

State Laws Relating to the Management of Roads by Local Assessment, County, and State Aid. (Circular No. 3, Office of Road Inquiry.)

An Act to Provide for the Construction of Roads by Local Assessmen, County, and State Aid. (Circular No. 3, Office of Road Inquiry.)



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ELECTROZONE

IT KILLS THE GERM An Absolute Cure for Chicken an

Mr. JEFF. D. CRENSHAW, of Riverton, Ala., in Southern Cultivator, of Sept. 25, 1895, says in part:

"After an experience of nearly a month during which time about every hog on our premises has had cholera, we have lost three out of a forty-odd killing ones—ELECTROZONE has proven to be a specific for which I go on record as saying it will cure hog cholera, and will prove of incalculable benefit to pork producers throughout the land."

50c, per quart bottle. Send for circulars and complete information to THE GEO. CARLETON BROWN CO., 72 Park Place, New York City. Manufactured by Ele trosone Co.

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Irrigation.

IRRIGATION FROM UNDERFLOW AND STORM WATERS.

By F. D. Coburn, Secretary State Board of Agriculture, read before the fourth annual meeting of Kansas Irrigation Association, October 2, 1895.

It is a significant and notable event that ithis meeting of the State Irriga-tion Association is convened here in the community where the desirability, the necessity and the feasibility of irrigation for Kansas were first suggested or seriously proposed, and in a county growing rich in proportion as its people adopt the idea, as they have already to a much greater extent than has been done in any other. It is appropriate that as friends and promoters of it we are assembled for conference in the city where irrigation for this region was vigorously and most ably advocated, in season and out of season, by at least one journalist and his journal at a period so early that at the time many of us who talk glibly of it to-day scarcely knew the spelling of the word, much less its definition. It is gratifying that the unflinching pioneer in this work which is to do so much toward making this region populous and prosperous, and whose location and early work here have eventuated in not only making Finney county famous wherever irriga-tion is discussed, but Garden City the Mecca of all who would learn it as applicable to a prairie country, is with us to participate in these deliberations; to give us for the asking his observations and conclusions as to the progre the mistakes and successes made, the advances yet possible, and how best to accomplish them.

The problems and conditions which confront the would-be irrigator in Kansas are in several essentials so different from those to be met by irrigators in other States where the chief water supply is from streams, that it seems to me that they are scarcely to be compared or.considered in the same category, and in some respects the man of however much experience and wide observation exclusively in a country physically like western Colorado, Utah or California, may have but the most limited comprehension of the needs of a people located on vast stretches of riverless plateaux such as exist in Kansas. Disdaining to take advantage of the information our neighbors have acquired would be a most short-sighted policy indeed, but their situation has not been what ours is and we must find ways and means to meet our own peculiar difficulties. It may as well be accepted in the beginning, that outside our valleys, which, with all their area, constitute but a small percentage of Kansas as a whole, our irrigation must be done with stormwaters we impound behind dams, or from supplies pumped by more or less expensive equipment from considerable depths in the earth. Hence, it seems to me that our primary problem, unlike that in other States where innumerable streams heading in regions of perpetual snow afford abundant water, is, firstly, to ascertain as near as may be the ex-tent of our supply beneath these high prairies; secondly, how near it is to the areas where we need to use it, and thirdly, how we can most readily and economically possess ourselves of it, and place it where, serving as reliable insurance against the vicissitudes of thirsty winds and tardy rainfall, it will give reasonable certainty of five crops in five years instead of but two or three

Incidentally, but nevertheless closely connected with the fact of our greater dependence being upon the underground waters, is another, from the contempla-tion of which there is no escaping, namely, that Kansas, in course of a year, has within its borders, independent of underground resources, immeasurable vagrant waters that need only be seized and utilized to make whole counties rich-to transform uncounted leagues of parched and profitless pasture into fruitful fields and homes for a prosperous population.

Within sight of where we are assembled there is coursing, during much of the year, a body of water, which, taken out upon our incalculably fentile prairies, stored there in the ten thousand reservoirs that nature has provided and man can provide, and properly distributed at the times when most needed, would work miracles and make the country round about a land of fat-We appear as yet to have no feasible scheme that contemplates this, the hoarding of such surplus as we have, against the rainless day; we lament the destructive dryness while the sources of great wealth sweep past our doors, the meanwhile contributing out of our poverty to the general fund from which

of vessels, and armies of dike-builders costing millions annually, to keep within bounds the wild floods that, unhindered by us, go forth to ravage and destroy the possessions of our fellow citizens and kindred.

Until within a recent period it has been accepted that the frequent sea-sons of disaster visited upon the people of these plains were unavoidable, but it now seems fairly demonstrated that nature has placed within reach the means to a successful agriculture and we are rapidly learning the ways of us-ing them. Individual enterprise is perhaps scarcely equal to the proper diversion or wisest management and distribution of the great water supply from the Arkansas, the Smoky, Solomon, Republican and Kaw, but it can all be accomplished by co-operation in the com-munities interested, under such legislative provisions and restrictions as past experience and existing conditions prove best. Its details can be thought out and wrought out by those on the ground and immediately interested.

On the other hand, the paramount problem of watering his land with well water and harvested storm waters, is one in the solving of which the individual must rely on himself, independently of legislation at Washington or Topeka and as he succeeds in this he is to that extent master of the situation, not subject to the whims of managers nor defaults of corporations nor water courses. In my judgment, after irriga tion has been developed, as it is to be in Kansas, the man who controls his own plant, who relies on the resources exist ing within the boundaries of his own farm and within the crown of his own hat, will be the one most envied. Such men are now in every county quietly laying the foundations for just the sort of success this implies; they are not depending on the Utopian reforms the new Congressman is to usher in nor on the appropriation which is to divert the Missouri river a thousand miles out of its course and make it climb twelve hundred feet in the air in order that it may irrigate their farms in western Kansas. He will have learned much more fully than is now realized the im-portance of having his soil deeply loosened and saturated with life-giving moisture prior to the planting and growing season, and likewise of having his pumping machinery at work pouring into suitable reservoirs and over his acres during the winter and spring months steady streams of sweet water wherewith to baffle the hot winds and protect from a scorching sun in those trying days when it blasts instead of

In future, the man who settles here to farm, to stay, to succeed, will consider from the first the subject of watersupply, water-gathering, water-storage and irrigation. His investment, his location, his life-plans will all be made with these in mind. It is superfluous to say to this audience—but to some others it may not be-that this does not imply pumping nor having water to pump over his entire possessions nor the irrigation of this entire region, a condition not thought of by well-informed people nor at all a necessity to intensive farming nor extensive population and production. Let no man be discouraged because of not seeing his way clear to because of not seeing his way clear to irrigate a large tract in the beginning, for he will be the better equipped to handle the larger tract after having his early experience and made his inevitable misakes on a somewhat modest scale. He will know infinitely more about the business after he has learned it than he did before, although he may never learn nearly so much as he thought he

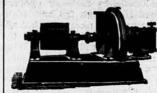
knew when he began. The people who paid their money into the public coffers for these arid or semiarid lands and gave them to civilization are justly entitled to such surveys and service on behalf of the government extent there is water for their irriga-tion. I heartily join in all their prayers and petitions "for the old flag and an appropriation," but the man who dams as well as prays and who works the underflow without ceasing, is the one whose promise to pay will always be most esteemed.

River Heights in Eastern Kansas.

Editor Kansas Farmer:-The following comparison of mean daily gauge heights on the Kaw, Neosho and Verdigris rivers, from the United States Geological Survey data, may be of interest to the readers of the Farmer.

The stations on these rivers-where readings are taken twice daily—are Lawrence, Iola and Independence.

The gauge at Lawrence is fastened to the south pier of the carriage bridge. is maintained corps of engineers, fleets The Neosho gauge is about one mile



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west of Iola, at Davis Bros.' mill, and the one on the Verdigris is about se miles southeast of Independence, at Mcl'aggart's mill.

The zero readings of these gauges do not correspond to zero discharge of the streams, indeed it is impossible to have it so, as the beds of the streams are changing some.

There is seen to be a quite close relation between the Neosho and Verdi-gris readings, the fluctuations in the atter being somewhat greater than in the former. The correspondence be-tween the Kaw readings and either of the others is less close than between the Neosho and Verdigris. This we would expect, since the Kaw has a much larger drainage area than either of the others and the rainfall on a part of the former is quite different to that E. C. MURPHY, on the latter.

Hydrographer. State University, Lawrence, Kas.

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*The Lawrence gauge readings from August 1 t	to 27	are	to 27 are only approximate.	appr	oxim	ate.					No.		- 40V	(1)														
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There is something on earth grander than arbitrary power. The thunder, the lightning and the earthquake are terrific, but the judgment of the people is more.—Daniel Webster.

Sta La Include

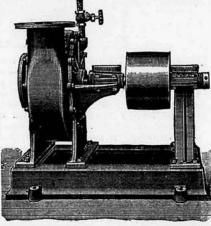
Product and Water Supply.

great has been the persistency which the use of little water for much land has been advocated by ditch companies, with more water contracted than they can possibly deliver, that an impression has gone abroad that after all the best results are to be attained without so heavy irrigation as the water user generally demands. Few accurate determinations of the results of liberal and of stinted use of water have been given to the public. The following from the Greeley (Col.) Tribune, of January 31, 1895, throws much light on the subject:

"A few weeks since the Tribune indulged in some criticisms of State Engineer Cramer's theory of the proper duty of water, which, in obedience to old Spanish theories, he said should reach in Colorado as high as 140 acres per cubic foot per second. The Tribune said of this that the Union Colony standard, which has been adopted as the standard for all this section of the country, was in the neighborhood of sixty-five acres, and that the only reason other canals were able to make a better record in the use of water than our canal No. 2, was owing to the fact that they do not have the water to use, and not because they could not use more water to advantage. Bearing on this point, the tables furnished by Commissioner Tenney and published in our columns last week, although incomplete for the purpose in hand, may yet serve as a pointer until his report is in print. when a better comparison can be made.

"The Larimer county ditch may represent one of the canals with a short appropriation. They irrigate more acres with a cubic foot per second than either the Larimer and Weld, or Canal No. 2. The Larimer and Weld comes next; its water supply is better than that of the Larimer county ditch, but not as good as that of Canal No. 2. Accordingly, in the last report it was shown that the duty per cubic foot per second under this canal was higher in acres than No. 2, and lower, as was to have been expected, than the Larimer county

"We are now ready for comparisons, as far as the products to the acre in Weld county under these three canals are concerned, and Mr. Tenney's figures show that, whereas the Larimer county ditch has just half as many acres under cultivation in Weld county, as has Canal No. 2, it produces a trifle more



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than one-third as much wheat, about one-tenth the number of bushels of oats and less than one-sixth the number of

sacks of potatoes. "Compared with the Larimer and Weld canal, the Larimer county ditch has a little more than one-third the acreage of the former in Weld county, and, as might be expected, makes a little better showing, because the water supply of the Larimer and Weld is not as good as that of No. 2; the Larimer county ditch produces with one-third the acreage of her neighbor below, little more than one-fifth the number of bushels of wheat, a little more than one-ninth the number of bushels of oats and a little more than a fifth as many sacks of potatoes. As said before, the record is incomplete, because, as yet, we do not know the total acreage under each canal, but the figures are good and the proportions are about right in Weld county, and it is fair to suppose that the comparison will hold good over the whole line of each canal used for com-

parison. "It takes water to grow crops, and other things being equal-that is, with the same cultivation and the same character of soil—the greater the water supply, up to the maximum quantity that can be used to advantage, the bigger the yields and the more profit to the

farmer. "There is another thing these tables show that will be surprising to many of our own people even. Of course, we knew that Greeley and its vicinity grew the bulk of the potato crop of the Poudre valley; but we had supposed the product of the Fort Collins section was considerable. It appears, however, that of a total product of 1,410,728, Larimer county produced a trifle over 100,000 sacks, and that Weld county produced over 1,300,000 sacks."

Some Notable Exhibits at the Wichita State Fair.

Our southern Kansas representative writes:

Passing on to the swine department, I found it in charge of D. M. Jones. There were 167 Poland-Chinas, thirtyeight Chester Whites and twelve Berkshires in the department, and from what I could see and learn, Mr. Jones was the right man in the right place, ever looking to the convenience and welfare of exhibitors. The American flag floated brilliantly over the entrance to the swine exhibit—the contribution of C. M. Irwin, of the Elm Beach stock farm, and editor of the American Horticulturist. By the way, Elm Beach farm was well represented in both Short-horns and Poland-Chinas. In their exhibit of Short-horn cattle was the Duke of Elm Beach, sired by Kirk-levington Prince 103935, out of Waterloo Lady 2d; Duke of Sedgwick, sired by Winsome Duke 11th 115137, and fe-males, Queen of Shannon 9th, Queen of Elm Beach and Lady Bates, by Winsome Duke 11th. Among their Poland-China hogs I noticed Wide Awake, by Val Tecumseh, and three sows 2 years old and over, namely, Winnie, by Seldom Found, Champion Girl and Corinne by Dandy Boy 28989 out of Cora S., and five yearling boars. A first premium was awarded their two-year-old sow, Champion Girl, also a first was secured on two-year-old bull and a second on yearling bull. During the fair this firm sold nine young boars and one yearling In addition to sales made they purchased two extra choice gilts bred to the noted Joe Sanders, and a fine yearling boar.

Of course, the Champion herd of Poland-China hogs, owned by Hon. R. S. Cook, received unstinted praise and worthy commendation from all pass-ersby. His was the herd that won seven prizes at the World's Fair, Chi-1893, on a show of eight pigs all under 1 year, and five prizes on four pigs all of one litter. At this fair he secured both herd prizes, two specials, nine first and seven second awards. To show the appreciation of swine procured from the Champion herd, I quote the language of a letter received by Mr. Cook, from C. A. Schmiedte, of Rose Hill ranch, California, under date of September 23, 1895. He says: "Friend Cook: I took \$216 in cash prizes at the California State fair, recently held at Sacramento, and ribbons enough to decorate my house. I took first on my old boar, Duncan, in class 2 years old and over, sweepstakes and herd on Cook's Tecumseh. I took first in class 6 months and under 1 year, and second with a boar of my own raising, all in one class. On Duchess (the Baker Girl 2d sow), I took first in class, sweepstakes on best sow any age, and best in herd. She was the best sow poses which the association may, by

there and had three Shellenberger sows, by Sanders, to buck against, and they were good ones. Wish I owned them." All of his winners were from the Champion herd except one and their offspring, Mr. Cook having sent him six head to start from and a boar this last spring (Cook's Tecumseh) which won all the highest awards in everything he could be shown in. This makes a record that any breeder might well feel proud of, and it is only one of many resulting from patronizing the Champion herd, especially when in search of prize-winning stock.

Kansas Swine Breeders' Meeting.

The annual meeting of the Kansas State Swine Breeders' Association was held at Wichita, Thursday evening, October 3, at 7:30, and was one of the most successful in the history of the association. Below we give President Geo. W. Berry's address in full:

OBJECTS OF THE ASSOCIATION.

"The membership of such a society as the Kansas Swine Breeders' Association would be presumed to consist of earnest, energetic and enthusiastic breeders of high-class animals of the respective breeds represented, and it is to be expected that the men who take an active part in such an organization as this are men who display more than ordinary interest in rearing improved classes of swine. That such earnest, active, meritorious breeders stand up in an association of the kind, and often reach the front rank, is an effect rather than one of the objects of this association.

"Perhaps as the work of the highest commendation may be mentioned the educational features of our meetings in the way of papers read, with the discussions held on questions pertaining to breeding, feeding and management of swine, important and valuable to the breeder of pure-bred swine as well as to the feeder of grades. Farmers, feeders and young breeders who have attended the annual or semi-annual meetings of our association in the past, have expressed themselves as highly pleased and gratified with the animated and interesting manner of handling topics which come before the society.

"The score-card practice has proved to be a valuable study to our Kansas breeders. Scoring under the rules constitutes the text-book lessons of the breeder; not that I am in favor of the score-card being used as a yard-stick or measure of judging to take the place of comparison in the show yard, but for study in the breeding lot, to analyze and examine the hog in all its parts, and giving due consideration to each and every essential point.

"The history of the Kansas Swine Breeders' Association tells that the purposes are broad enough to include not only the welfare of the breeder, but the welfare of the meat-producer, as well as the tastes and wants of the consumers of pork, sausage and bacon. Permit me to refer to one event in the history of the association: I think it was in January, 1891, when the Department of Agriculture was endeavoring to establish inspection of meats intended for export, that this association, by resolution, encouraged and endorsed the work done on that line, and further recommended that it be extended to cover the entire product of the country, for home use as well as foreign trade. And it is gratifying to be able to state that the recommendations had effect, at least on animals on foot intended for slaughter in the principal packing centers, and that all animals pro-nounced by government inspectors unfit for food now have tags hung to their ears and are removed to desiccating works and destroyed. Let me say that the better such laws are enforced, the greater will be the renovating influence among those who raise and sell animals for food, as well as establishing confidence and respect among all classes of consumers, thereby lessening prejudices against the use of meats as food, thus stimulating a healthful demand for the products of sound animals.

"The social features of the association are most enjoyable. A society composed of individuals representing dif-ferent sections, and all the different breeds of improved swine, meeting together, in a friendly manner and enjoying each other's company, extending acquaintance, interchanging opinions and experiences, is not only enjoyable but productive of much that is valuable and profitable.

"I have but touched upon the pur-

active thought and earnest endeavor of its individual members, put into force and effect.

"There is a sense of honor and respectability, and I may add responsibility, in being a member of an organiza-tion bound together by ties of friendship and true fellowship, and this thought should make better breeders and better men. No breeder who possesses a proper degree of respect can allow any act of his to lower the standard of honor due the association of fellow breeders, or otherwise than enhance the estimation and popularity of the improved breed of stock he represents."

After extending a vote of thanks to the retiring officers for their untiring efforts in building up the association and to the Mayor of the city of Wichita for the use of the City hall, adjournment was taken to the winter meeting, to be held at Topeka during the week of the meetings of Improved Stock Breeders' Association and the State Board of Agri-

Gossip About Stock.

V. B. Howey, of Topeka, reports his thoroughbred Poland-Chinas and English Berkshires in perfect health and excellent condition.

At J. R. Killough & Sons' sale of Poland-China swine, at Richmond, Franklin county, October 10, Col. Sawyer disposed of fifty head at an average of \$15.16 per

Col. Sawyer conducted a swine sale for Chris Hughes, at Pontiac, October 8. Prices were doubtless affected by the fact that there was hog cholera in the neigh-borhood. The average was \$13.56.

At the St. Louis fair, the herd Poland-China boor, Chief We Know, owned by Risk & Gabbert, Weston, Mo., was sold to Lloyd & Mugg, prominent swine breed-ers of Indiana. The price realized was

Notice the new sheep advertisement of Dorsey Bros., Perry, Ill. They made quite an exhibit of Shropshire and Delaine Merino sheep at St. Louis. They have a class of profitable sheep much needed in Kansas now. Look up their card and write for what you want.

card and write for what you want.

The forthcoming Highland herd sale of Poland-China hogs, first advertised this week by Dietrich & Gentry, of Richmond, Kas., will certainly attract buyers who desire the blood of the leading strains and prize-winners, such as Black U. S., Ideal Black U. S., Lord Corwin 4th, One Price, J. H. Sanders, King Butler and Tecumseh. Notice sale advertisement and write them for particulars.

write them for particulars.

B. F. Dorsey & Sons, Perry, Ill., made a sensational swine sale during the St. Louis fair. They sold ten head of their prize-winning Poland-Chinas for \$1,200, to C. W. Thomas, Podeton, Texas. These ten hogs won nine first and one second prize at St. Louis. This firm used to show swine at Topeka and Kansas City fairs with great success and have always enjoyed a large trade in Kansas.

enjoyed a large trade in Kansas.

Our readers who have been so anxious to secure Shropshire sheep will now have a chance to buy them from one of the most reliable Western breeders, Mr. C. H. Ballinger, Lexington, Neb., who offers to sell ewes and rams singly or in car lots. He will be remembered as an old-time exhibitor at the Kansas State fair. This class of sheep are rather scarce and are considered highly profitable. Notice the advertisement of Alfalfa Shropshires.

Undoubtedly the greatest sale of Hol-

the advertisement of Alfalfa Shropshires.
Undoubtedly the greatest sale of Holstein-Frieslans ever offered in the West is the great dispersion sale to be held October 29, 1895, by M. E. Moore, Cameron, Mo., who is considered one of the foremost breeders of this class of cattle in this country. Ill health compels Mr. Moore to make this sacrifice sale. It is hoped that breeders who want some of the best blood and most profitable Holstein-Frieslan cattle to be had anywhere, will not fail to be present at this significant sale. This herd, besides being one of the most successful show herds, also has stock having direct lines of breeding of the largest public and private butter and milk tests in Our illustration, this week. on page 2

Our illustration, this week, on page 3, gives a good likeness of Business 11637 C., the celebrated sire at head of the Princeton herd of Poland-China swife, owned by H. Davison & Son, Princeton, Kas. Individually, Business is a remarkably good animal, and his get prove him to be a strong reproductive sire, the farrows being all that any one could desire. His sire was Square Business 22163 O., he by Minority 18471 O. and out of Virgin 32598 O. Minority was by Success N. 1147 out of Touch-me-not 2068; Virgin was by Tecumseh 5243, out of Variety 12th 20572 O. The dam of Business was Corwin Lass 65818 O., she being sired by 'Adam 4299, and out of King's Best 2456; Adam was by Victor 4339, out of McKee's Fannie 1278; King's Best was by King Corwin Tribe 1217, out

of Zephyr 15350. Business has been shown at five fairs and secured for his owner five first and two sweepstakes premiumsgood enough. The firm has now 125 Poland-Chinas, with six sows yet to farrow. See their card in the "Breeders' Directory" of this paper and then write them. Stock for sale at all times. All inquiries promptly answered.

Multum in Parvo.

The language of truth is simple.—Eurip-

Nature ever provides for her own exigencies.—Seneca.

Those we call ancients were really new in everything.—Pascal.

The great art of life is to play for much, and stake little.—Johnson.

That is the best part of beauty which a picture cannot express.—Bacon.

The usual fortune of complaint is to exite contempt more than pity.—Johnson. The man who feels himself ignorant should at least be modest.—Johnson.

Vice is contagious, and there is no trust-ng the sound and the sick together,—

The only sin which we never forgive in each other is difference of opinion.—Emer-

We become willing servants to the good by the bonds their virtues lay upon us. Sir P. Sidney.

Old age is not one of the beauties of creation, but it is one of its harmonies.

Mme. Swetchine.

Rhetoric is nothing but reason well dressed and argument put in order.—Jeremy Collier.

my Collier.

Physic, for the most part, is nothing else but the substitute of exercise or temperance.—Addison.

Some men so dislike the dust kicked up by the generation they belong to, that, being unable to pass, they lag behind it.—

Hare.

Time is incalculably long, and every day is a vessel into which very much may be poured, if one will really fill it up.—Goethe.

Every man is an original and solitary character. None can either understand or feel the book of his own life like him-self.—Cecil.

The stage is a supplement to the pulpit, where virtue, according to Plato's sublime idea, moves our love and affection when made visible to the eye.—Disraeli.

I have also seen the world, and after long experience have discovered that ennui is our greatest enemy and remunerative labor our most lasting friend.—Justus Moser.

What we truly and earnestly aspire to be, that in some sense we are. The mere aspiration, by changing the frame of the mind, for the moment realizes itself.

Mrs. Jameson. Gross and vulgar minds will always pay a higher respect to wealth than to talent; for wealth, although it be a far less efficient source of power than talent, happens to be far more intelligible.—Colton.

Youth is not the age of pleasure; we then expect too much, and we are, therefore, exposed to daily disappointments and mortifications. When we are a little older and have brought down our wishes to our experience, then we become calm and begin to enjoy ourselves.—Lord Liverpool.



Are You an Inventor?

If so, let us make your patterns, models and machines.

TOPEKA FOUNDRY, Corner J. and Second St., TOPEKA, KAS.



Hosts of people go to work in the wrong way to cure a



EARLY KANSAS SEED POTATOES!

81 PER BUSHEL, F. O. B.

CLARENCE J. NORTON, Morantown, Kas.

The Some Circle.

To Correspondents.

The matter for the HOME CIRCLE is selected Wednesday of the week before the paper is printed. Manuscript received after that almost invariably goes over to the next week, unless it is very short and very good. Correspondents will govern themselves accordingly.

THAT BROTHER OF MINE.

Who is it comes in like a whirlwind, And closes the door with a slam, And, before he has taken his hat off, Calls out for "some bread and some jam?"

yam?"
Who is it that whistles so loudly,
As he works at some tangle of twine
That will send his kite up into cloudland?
Why, of course, it's that brother of mine.

Who is it that, when I am weary,
Has always a hole in his coat,
A button to sew on in a hurry,
A sail to be made for a boat?
Who is it, that keeps in my basket,
His marbles, and long fishing line,
And expects, undisturbed, there to find
them?

No one else but that brother of mine.

Who is it that tiptoes about softly,
Whenever I'm sick or in pain—
And is every minute forgetting,
And whistling some head-splitting
strain?
Who is it that when he is trying
To be just as still as he can,
Is always most terribly noisy?
My brother, of course—he's the man.

Who is it, I'd rather have by me,
When in need of a true, honest friend;
Who is that I shall miss sadly
When his boyhood has come to an end?
And when he is far from the old home,
And I long for a glimpse of sunshine,
Whom then, do you think I shall send for?
Why, of course, for that brother of mine.
—Good Housekeeping.

TO-MORROW.

High hopes that burned like stars sublime
Go down the heavens of freedom,
And true hearts perish in the time
We bitterliest need them.
But never sit we down and say
There's nothing left but sorrew;
We walk the wilderness to-day,
The promised land to-morrow.

Our hearts brood o'er the past, our eyes
With smiling futures glisten;
Lo! now its dawn bursts on the sky—
Lean out your souls and listen.
The earth rolls freedom's radiant way,
And ripens with our sorrow,
And ripens with our sorrow,
Grings victory to-morrow.

'Tis weary watching wave by wave,
And yet the tide heaves onward;
We climb like corals, grave by grave,
And beat a pathway sunward.
We're beaten back in many a fray,
Yet never strength we borrow,
And where our vanguard rests to-day
Our rear shall rest to-morrow.

Through all the long, dark night of years
The people's cry ascended;
The earth was wet with blood and tears
Ere their weak sufferings ended.
The few shall not forever sway,
The many toil in sorrow;
The bars of hell are strong to-day,
But right shall rule to-morrow.

—Gerald Massey.

BE CAREFUL WITH YOUR WORDS.

Words are messengers of thought between minds. They are vehicles of ideas, whose cargo is often much deformed by having been frequently re-loaded. Words are often received as samples of the quality and quantity of the store from whence they came. "By thy words thou shalt be justified and by thy words thou shalt be condemned." They are an index to mind and soul. The Psalmist prayed: "Let the words of my mouth and the meditations of my heart be acceptable in thy sight, O Lord, my strength and Redeemer."

David evidently thought that the welfare and happiness of man lay in the words of his mouth and the meditations of his heart. Who is there among us that has not at times felt sore of heart, because of having said some thing they ought not? If there be any, he is with-

Solomon expresses the highest esteem for the man of discreet words. He reaches the apex of manly satisfaction when he says: "A man hath joy by the answer of his mouth; and a word spoken in due season, how good is it."

"A word fitly spoken is like apples of gold in pictures of silver." On the other hand, he speaks with much contempt of the idle meddler who multiplies words

"Seest thou a man that is hasty in his words; there is more hope of a fool than of him."

"Put away from thee a forward mouth, and perverse ips put far from thee.'

"A wholesome tongue is a tree of life; but perverseness therein is a breach in

the spirit."
"A fool's mouth is his destruction, and his mouth calleth for strokes.'

Thoughts are like fractions with words for a denominator. Multiply the denominator and you divide the value; divide the denominator and you multiply the value.

'In a multitude of words there want-

eth not sin; but he that refraineth his lips is wise."

Good language regulated with discretion gives character and dignity to its possessor and adds much to his usefulness in society. To use words well and properly is an emblem of wisdom which everybody should covet. When God asked Solomon to choose whatsoever he most desired and he would give it, Solomon chose wisdom. For wisdom we should ever labor, strive and pray. "For wisdom is better than rubies; and all the things that may be desired are not to be compared to it."

DEFINITIONS OF HOME.

A prize was offered recently by the London Tid Bits for the best answer to the question, "What is Home?" Here are a few of the answers which were received:

The golden setting, in which the brightest jewel is "mother."

A world of strife shut out, a world of love shut in.

Home is the blossom, of which heaven is the fruit.

The only spot on earth where the faults and failings of fallen humanity are hidden under the mantle of charity. An abode in which the inmate, the "superior being called man," can pay back at night, with fifty per cent. interest, every annoyance that has met him in business during the day.

The place where the great are sometimes small and the small often great. The father's kingdom, the children's

paradise, the mother's world. The jewel casket, containing the most precious of all jewels-domestic happi-

Where you are treated best and you grumble most.

Home is the central telegraph office of human love, into which run innumerable wires of affection, many of which, though extending thousands of miles, are never disconnected from the one great terminus.

The center of our affections, around which our heart's best wishes twine.

A little hollow scooped out of the windy hill of the world, where we can be shielded from its cares and annoyances.

A popular but paradoxical institution, in which woman works in the absence of man, and man rests in the presence of woman.

I wonder whether any of the Kansas Farmer readers have tried oil of lavender as a preventive of flies. should like to know whether the lady who so strongly recommended it had ever tried it. Maybe Kansas flies are tougher than some others. Perhaps what we bought was not as strong as some, but certainly our flies did not object to it, although I really think it kept mosquitoes off. I wish some of the old-time writers would again favor us with their contributions. I have often thought of Mrs. M. J. Hunter, down in Oklahoma, and wondered how she fared through last year's drought. Some down there seem to have suffered very severely. Why don't some of the farmers' wives write to the "Home Circle" and tell us about their difficulties with respect to their children's education? Perhaps some of us might be able to help one another with our experiences. ENGLISHWOMAN.

If you do not want to find faults in your friends, do not look for them. If you do not want to find your enemies, do not hunt for them; they will hunt for you. And what is worse, they will find you, too. I have known men who passed all their lives hunting for things which nobody wished to have discovered, and which only made the finders miserable. There are men who cannot smell a heliotrope held at their lips, but have a nose for carrion that would be a fortune to some poor struggling buzzard He never looks for a good point about any man. He finds the spots on the sun, and sees not one ray of its brightness. A clear running spring brook gives him the hydrphobia, and a mud-puddle is a reviving Turkish bath to his mean little soul. If he could go to heaven he would be of all men most miserable, because he could find no mud to throw at the angels!-Robert J. Burdette.

Paxico, Kas. .

It is with sorrows as with countries each man has his own.—Chateaubriand.

The best rules to form a young man are to talk little, to hear much, to reflect alone upon what has passed in company, to distrust one's own opinions, and value others that deserve it.—Sir W. Temple.

Solitude relieves us when we are sick of company, and conversation when we are weary of being alone, so that the one cures the other. There is no man so miserable as he that is at a loss how to use his time.—Seneca. Highest of all in Leavening Power.—Latest U.S. Gov't Report

ABSOLUTELY PURE

POPULAR IN GEORGIA.

Grand Work Done by Mrs. Thompson for the Atlanta Exposition.

"She shan't want for money to realize her ideas, for I'll back her up if every cent of property I own has to be mortgaged to do it." So says the father of pretty Mrs. Joseph Thompson, president of the woman's department of the Atlanta exposition. His avowal particularly interesting, throwing light as it does on the attitude of the man of to-day toward the progressive woman.

Every one remembers the substantial moral and financial support Mr. Potter Palmer accorded his wife while she worked for the world's fair. That very enterprising business man was not only proud, but pleased to step entirely to one side and help furnish illumination for the glory that enveloped Mrs. Palmer. He thought it no shame to be secondary on all occasions, trot in her wake, and serve as humble supplement to her fine deeds.

And here again we see this unusual and joyful masculine self-effacement. Mr. Mimms, Mrs. Thompson's father, and Mr. Joseph Thompson, her husband, are prototypes of Mr. Palmer, of Chicago.

Though both of them southern men, and might be suspected of ultra-conservatism, yet they have enthusias-tically indorsed Mrs. Thompson on all occasions, and constantly reiterated their determination to stand by her to the full extent of their fortunes.

Nor is the young and very beautiful president of the Atlanta exposition un-



MRS. JOSEPH THOMPSON.

worthy of the ardent admiration of the men of her family. She has for some years been regarded as the social leader and belle of her native city.

Even before her marriage she was her father's close associate. She shared his every interest, and gave as much of her time to the entertainment of the influential strangers who came to Atlanta to transact business with her father as she did to her own young friends.

A few years ago any fine afternoon one might have seen that charming girl in an open carriage, seated beside a silver-haired financial magnate, from a showing him doubtless the city of Atlanta, with genuine pride, and revealing to him its prospects and possibilities.

Her tact, her wit, her sincerity, has probably in this way accomplished much for Atlanta's prosperity.

With every advantage and opportunity, with the benefit of the world's fair exhibit, having gone just before to open the way, she passed six months in Europe, her whole time devoted to the sole interest of the exposition.

She has worked conscientiously all winter at her post in Atlanta, and is now ready to show a brilliant result of the big responsibilities laid upon her youthful shoulders.

To Clean Copper and Brass. Copper tea kettles and other household articles having polished surfaces should not be allowed to get rusty, as

rust will destroy the metal. If the surface be rubbed but a little every day, the labor of keeping them bright will be very light. In case a rust is formed on the surface, apply a solution of oxalic acid, which, well rubbed over tarnished copper or brass, will soon remove the tarnish, rendering the metal bright. The acid must be washed off with water, and the surface rubbed with whiting and soft leather. A mixture of muriatic acid and alum dissolved in water imparts a golden color to brass articles that are steeped in it a few seconds. To give it a finer polish, go over the surface of the metal with rottenstone and sweet oil, then rub off with a piece of cotton or flannel, and polish with a leather.

Sachets for Slumber Robes.

One of the prettiest fads of elegantes is the long nightgown sachet, which, holding the gown in present use, lies across the foot of the bed during the day. It is as long as the bed is wide, and is about a foot and a half across. It is made of a handsome brocade, of cretonne, of embroidered linen, whatever material best suits the room, is wadded, sacheted, lined with quilted silk and tied with ribbons. In this sweet nest the nightgown lies folded once near the bottom.

Richest Women in the World.

The total of the fortunes of six women in the world amounts to \$305,-000,000, distributed as follows:

A Chance for Women to Make Money.

I see so many men giving their experience in the Dish-Washer business that one would almost think the men had "taken to washing the dishes," but ladies can do just as well as men. I have been devoting my time for over a year to selling Perfection Dish-Washers. My husband has aided mornings and evenings, and we have cleared \$5,000 in a year. The trouble with people is they will not try new things, so let the golden opportunities pass. Every family wants a Dish-Washer, and any one can sell them if they try. I do not canvass at all; people come or send after washers. I have examined all the Dish-Washers made, but the Perfection has no equal. You can get complete instructions by addressing the Perfection Manufacturing Co., Drawer a-3, Englewood, Ill. I want ladies everywhere to try this business and let us hear how they suc-A READER.

German Hair Restorer

N. H. F. -NEVER HAS FAILED-

Baldness, Dandruff and Falling Out of Hair. Write for testimonials and prices.

W. F. RIGHTMIRE, Secretary, GERMAN MEDICAL CO., Topeka, Kas.

A NEW BUUK

A NFW ROOK | is printed on fine book paper, it has hundreds of illus-

trations — wood Ocuts, zinc etchings. Its reading matter is interesting, as much so for a man as a woman, and the children also are not neglected as much so for a man as a woman,

The mere sitting down and writing for it will secure it for you FREE. Do you want it? If so, send your name and address to

EMERY, BIRD, THAYER & CO.

Bullone, Moore Errengelo.

Standard

Bicycle

The Houng Folks.

LIMITATIONS OF YOUTH.

I'd like to be a cowboy an' ride a flery way out into the big an' boundless west;
I'd kill the bears an' catamounts an'
wolves I come across,
An' I'd pluck the bal'head eagle from
his pest!

his nest!
With my pistols at my side
I would roam the prarers wide,
to scalp the savage Injun in his wigwam would I ride—
If I darst; but I darsen't!

I'd like to go to Afriky an' hunt the lions there,
And the biggest ollyfunts you ever saw!
would track the fierce gorilla to his
equatorial lair,
An' beard the cannybull that eats folks

raw!
I'd chase the pizen snakes
And the pottimus that makes
nest down at the bottom of unfathomable lakes able lakes— If I darst; but I darsen't!

I would I were a pirut to sail the ocean

would I were a pirut to sair the
blue,
With a big black flag aflyin' overhead;
I would scour the billowy main with my
gallant pirut crew
An' dye the sea a gouty, gory red!
With my cutlass in my hand,
On the quarterdeck I'd stand
And to deeds of heroism I'd incite my
pirut band—
If I darst; but I darsen't!

And, if I darst, I'd lick my pa for the times that he's licked me!
I'd lick my brother an' my teacher, too!
I'd lick the fellers that call 'round on sister after tea,
An' I'd keep on lickin' folks till I got through!
You bet! I'd run away
From my lessons to my play,
An' I'd shoo the hens, an' teaze the cat, an' kiss the girls all day—
If I darst; but I darsen't!
—Eugene Field, in Chicago Record.

SOME QUEER NESTS.

The Architecture of Birds Is Very Wonderful Indeed.

A curious Australian bird is the little rock warbler (Origma rubricata), whose method of nest constructing is prob-

ably unique among birds:
Mr. Gould writes: "The true habitat
of this species is New South Wales, over which part of the country it is very generally distributed, wherever situations occur suitable to its habits; water courses and the rocky beds of gullies, both near the coast and among the mountains of the interior, being equally frequented by it; and so exclusively, in fact, is it confined to such situations that it never visits the forests, nor have I ever seen it perching on the branches of the trees. It does not even resort to them as a resting place for its nest, but suspends the latter to the ceilings of caverns and the under surface of overhanging rocks, in a manner that is most surprising; the



NEST OF THE ROCK WARBLER.

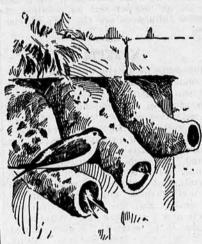
nest, which is of an oblong, globular form, and compose similar substances, is suspended by a narrow neck, and presents one of the most singular instances of bird architecture that has yet come under my

Dr. E. P. Ramsay has also given an account of the species in the Wide Bay districts: "The rock warbler is a very pleasing and lively little bird, and seems to love solitude. I have never seen it perch on a tree, although I have spent several evenings in watching it. It runs with rapidity over the ground, and over heaps of rubbish left by floods, where it seems to get a good deal of its food. Sometimes it will remain for a minute on the point of a rock, then, as if falling over the edge, it will repeat its shrill cry, and dash off into some

hole in the cliffs. "The nest is of an oblong form, very large for the size of the bird, with an

entrance in the side about two inches wide. It is generally suspended under some overhanging rock, and is composed of fibrous roots interwoven with spiders' webs; the bird evincing a preference for those webs which contain the spiders' eggs, and that are of a greenish color. The moss does not assume the shape of a nest until a few days before it is completed, when a hole for entrance is made, and the inside is warmly lined with feathers; but when finished, it is a very ragged structure, and easily shaken to pieces. The birds take a long time in building their nests; one found on the 6th of August was not finished until the 25th of that month; on the 30th three eggs were taken from it.

"Of the Australian cliff swallow, the 'fairy martin' of Gould and other writers, Dr. Ramsay records an instance in which he found a mass of nests fastened under an overhanging rock on the banks of the Bell river. counted,' he says, 'upward of one hundred nests, all built together so closely



NEST OF THE FAIRY MARTIN.

that many of the entrances alone were visible, the nest itself being built round by others."

Mr. Gould has given the accompanying remarks on the species as noticed by him in Australia:

"I observed it throughout the district of the Upper Hunter, as well as in every part of the interior, breeding in various localities, wherever suitable situations presented themselves; sometimes their nests are constructed in the cavities of decayed trees; while not in-frequently clusters of them are attached to the perpendicular banks of rivers, the sides of rocks, etc., generally in the vicinity of water. The long bottle-shaped nest is composed of mud or clay, and, like that of our common martin, is only worked at in the morning and evening, unless the day be wet and showery. In the constructing of the nests these birds appear to work in small companies, six or seven assisting in the formation of each nest, one remaining within and receiving the mud brought by the others in their mouths; in shape their nests are nearly round, but vary in size from four to six or seven inches in diameter; the spouts of some being eight or nine inches in length."-Good Words.

A SHARP-WITTED CAT.

How He Got Rid of a Dinner Which Didn't Suit His Taste.

A correspondent of the London Spectator reports a clever trick of a black Persian cat, by the name of Prin. One of his peculiarities is a disrelish of meats unless they are roasted. The cook undertook to break him of this foolish whim. In short, she determined to starve it out of him.

She set before him a saucer of boiled meat. Prin turned away from it in disgust. "Very well," said the cook, "it is that or nothing."

For three days the cat went hungry, the boiled meat remaining untouched. But on the fourth morning the cook

found the saucer empty.
"Ah, Prin," she said, "so you have come to your meat."

That day the cat fared sumptuously on roast beef with plenty of gravy. But on Saturday, when the potboard under the dresser was cleaned, the cook found in one of the stewpans the boiled meat, which had remained three days in Prin's saucer. The cat had

been too sharp for her. "I know this story to be true," concludes the correspondent.

A bully is always a coward.—Haliburton.

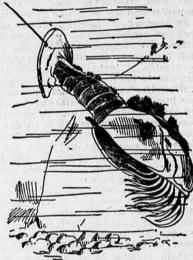
THE GOOSE BARNACLE.

One of the Most Interesting Members of the Shellfish Family.

The goose barnacle does not attach itself to an object rigidly by its shell, like the common barnacle, but by a disk, at the base of a stem or a neck, and it is from this stem or neck that it gets the name of goose barnacle. With a glue or secretion of its own it attaches itself so tightly that it is diffi-cult to scrape it off; but the neck is flexible. The body of the goose barnacle, when its hand or feeder is within its shell and out of sight, looks something like a soft-shelled clam; and it is, in fact, sometimes called the clam bar-nacle. The goose barnacle is not unusual in the waters around New York.

In its earliest existence the goose barnacle, like other barnacles, is a free swimmer, but it very soon attaches itself, and thereafter it remains fast. It may hitch on to a spile in a tideway or to some other fixed object, but it is generally found moored to a floating object, a piece of wood, a plank, or the side of a vessel; fastened to a moving object it is more likely to get sufficient sustenance.

The barnacle lives upon animalculæ. It fishes for its food with a feeder,



which it throws out from its shell and uses something like a hand or a net. The feeder is made up of many slender little fingers, with delicate feathery lateral projections, through which the water passes easily, but which retain the animalculæ. The barnacle throws this feeder out from its shell and sweeps it through the water and over into its shell again with whatever it can collect. It repeats this until it is

no longer hungry.

The barnacle here pictured was until recently at the New York aquarium at Castle Garden. It was taken from the back of a loggerhead turtle captured in the bay. The goose barnacle is deli-cate in captivity, and this one proved no exception to the rule. In color its shell was not unlike that of a clam. The growth seen on the side and back of the shell and on the neck of the barnacle is a fine, brown, mossy, marine vegetation often seen on such barnacles. There were also on the shell of this barnacle three or four minute barnacles of the ordinary kind, extremely small, each perhaps not more than an eighth of an inch across, and yet each provided with one of those wonderful hands or nets wherewith to supply itself with food.—N. Y. Sun.

Shadow owes its birth to light.-Gay.

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KANSAS FARMER CO., Topeka, Kas.

St. Louis quotations for broomcorn are: Choice green, \$50 to \$55; fair, \$35 to \$40; inferior, \$25.

The 1895 meeting of the Texas Irrigation Association is to be held at San Antonio in November.

For two months a severe drought has prevailed all over western Pennsylvania, West Virginia, almost the entire State of Ohio and parts of Indiana.

The severity of the present drought in the greater part of the winter wheat areas of the United States is such that a serious curtailment of area seeded is experienced.

The regular annual meeting of the members of the American Hereford Cattle Breeders' Association will be held at the Sherman House, Chicago, Ill., Tuesday evening, November 5, 1895, at 7:30

Holders of wool are reported to be firm in their views. Latest St. Louis quotations on Kansas and Nebraska wools are: Medium, 14; fine medium, 12; light fine, 11; heavy fine, 8 to 9; extra heavy, 7½; carpet, 10 to 12.

The weekly weather-crop bulletins of the Kansas Weather Service have been discontinued until next spring. It has been arranged, however, that a monthly review of the weather, with a map showing the precipitation for the month, instead of for the week, as formerly, shall appear in the Kansas Farmer The first of these monthly summaries is given in this paper.

A representative of the Kansas Farmer had the pleasure of calling on Miss Jennie Goodwin, the only lady live stock "commission man" in the world. This is a new field of labor for woman, but there appears to be no reason why Miss Goodwin cannot make it a success. Having old and expe rienced salesmen in both the cattle and hog department, she is enjoying an excellent trade, which speaks well for the chivalry of the stockmen of the West.

At the late meeting of the Missouri State Grange, at Warrenton, David Lubin, of Sacramento, Cal., who was present by invitation, addressed the Grange in advocacy of the protection of agricultural staples by an export bounty, urging, as a measure of equity, that the producers of these staples are entitled to an equal measure of protection with manufacturers as long as manufacturers are protected. A general discussion then ensued, after which the proposition was put to a vote and

The Kansas Farmer takes pleasure in noting the fact that the present Live Stock Sanitary Commission has proved in every way proficient during this season. Hon. J. W. Moore, of Marion county, and Hon. J. I. Brown, of Ottawa county, are known to be men of wide experience and to have excellent judgment in matters pertaining to the live stock industry in Kansas. They are extensively engaged in the stock business and have a personal interest in protecting stock against any possibility

THE WILDNESS OF SPECULATION.

Among the admonitions to the members of the "Society of Friends"-"Quakers"—the warning against engaging in "hazardous or speculative business beyond their ability to manage," has exerted a potent influence in producing the business conservatism which has made poverty so rare among people of this denomination. But the so-called "business world" seems to have for-gotten that there is such a virtue as conservatism. This remark is justified by the way in which the financial world is rushing into speculation in the South African gold fields.

The basic facts on which the promoters of the "Kaffir" schemes have builded are: First, that in gold production Africa has just now taken the first place, having surpassed successively the United States and Australasia, and second, that some twentyfive of the Kaffir gold mining companies are paying immense dividends on the capital invested. These dividends are reported to average about 20 per cent., while some of the best are paying as high as 65, 75, 90 and even 100 per cent. This, of course, places the selling price of these rich-paying stocks far above par. The legal capitalization of these twenty-five companies is about \$22,500, 000, while their present market price represents about \$192,500,000. Naturally, those who, having invested in these companies and are now able to sell out at an average of about six dollars for every one represented in their capitalization, and perhaps several times as much for every one actually invested, are considered lucky; and, naturally, there are, in the financial world, plenty of "financiers" who represent that they have just as good investments, which need only developing. These promoters resort to every device known to trickery to boom the prices of their stocks. They promise and guarantee dividends; they pay dividends before they are earned, and in cases in which no dividends can probably ever be earned. Of these uncertain ventures there are in existence, as reported, 164 enterprises, capitalized at \$218,000,000. So successful have the promoters of these been in the financial markets that they have worked up the market valuation of these stocks of uncertain promise to an aggregate of about \$880,000,000, or about four to one.

So attractive has this field appeared to investors that American investments, the good with the bad, have been largely neglected by English investors, who have tumbled over each other in the effort to get the "Africans" or "Kaffirs." The effect of this has here been to retard the recovery from the panic, and while this is only one of the several important causes of the long-continued depressions, it has been the cause of much of the demand for money on maturing mortgages which might otherwise have been easily renewed.

American financiers are by no means certain that the last of our inconveniences on account of the diversion of investment money from America to Africa has been experienced. It will not be forgotten that the great panic has been traced for its inception to the collapse of some immense South American investments of English money. That many of these South African bubbles must ultimately burst is scarcely to be doubted. It is not easy to trace the effect which this will have upon finances here, but financiers expect no good from it. Speaking of the situation Henry Clews says:

Henry Clews says:

It is not surprising that the sober part of London and Paris should begin to feel uneasy. That all this must end in a terrific explosion there is no possibility of question. That the catastrophe can be much longer postponed is not to be doubted. The symptoms are already ominous. The stage of distrust has been reached, and the next stage must be realizing; and when that comes the collapse will be instantaneous, and hundreds of millions of market value may be wiped out in a few hours or days. At the moment, the stronger speculators are attempting to stay the realizing process by main force of buying; but such stuff cannot be saved by any such tricks, and soon the big speculators and the little ones will be crowding on each other to realize, with no buyers in the field. From the nature of the case it must be so; and it is none too early to discount the inevitable.

The interest of the New York market in this impending explosion lies in this: that as the collapse would affect the whole investment market, our securities held in England would suffer in sympathy, and might consequently be returned on this market.

Just how financial markets "sympa-

Just how financial markets "sympathize" with each other is not plain. The fact that the world is so united that no great catastrophe can overtake one part of civilization without disastrously affecting all, is matter of experience. It is to be expected, however, that after the shock of the preof contracting any contagious disease. dicted collapse, attention will be turned

more than ever upon safe and sound investments, opportunities for which are afforded in this country in many forms.

Well, what has this to do with the man who minds his own business, keeps out of debt and don't want to speculate? If, indeed, such a man could be inde-pendent of the financial world he would not need to look out for breakers ahead. But the abundance or scarcity of money affects the markets in which every producer must sell. It affects the employment of the millions of wage-earners and their ability to buy and pay for products. Financial panic, from whatever source it proceeds, is a catastrophe for all, and the proper operation of financial machinery is a condition necessary to the prosperity of even the most independent. It is this aspect which gives to financial movements and to financial questions their interest as public concerns, and will cause them to enter yet more fully into public and political discussions. In this matter the whole world is kin, and that there will presently be evolved a science of finance is not too much to expect. In the meantime, conservatism, frugality, industry, and the making of one's existence as independent as possible of outside influences are the part of wis-

MARKETS.

Questions of production and of improvements in methods of production; and the problem of reducing the cost of production, are constantly receiving the attention of scientists and of practical producers. But the question of markets for the products are, so far as comprehensive consideration is concerned, left almost entirely to the chance, not to say the often visionary scheming of politicians, with an occasional earnest suggestion from a statesman. But the question of markets is now a pressing one. Whether it is soon to be settled, for agricultural products, by the natural filling up of the earth or whether of the earth, or whether is still to increase in importance as during the last two or three decades, the present situation is a pressnig one and the difficulty of finding remunerative markets for the products of the field, the mine or the factory, is so serious as to seem insurmountable to the average man.

With a short crop of wheat, the price in the country's chief grain center is below 60 cents per bushel, and the recelpts are large. Cattle and hogs refuse to advance and incline to go lower. Corn is, of course, low on account of the enormous crop. The horse market has long been overstocked. A few days ago one of the extensive growers of potatoes at Greeley, Col., sold a portion of his land because the potato market is now overstocked and the prospect is dull for the future. So also the leading potato-grower of the Kaw valley proposes to change his line of farming because of the changing situation as to potatoes. Not long ago a prominent western Kansas propounded a poser, when he asked of an enthusiast as to production of vegetables under irrigation: "But where will you find a mar-

This same question comes to the manu facturer, and after holding his products for some time, with his factory probably shut down, he decides to make a market by reducing the price. With him this leads inevitably to reduction in the price of raw materials or reduction in the scale of wages paid to operatives, or both such reductions.

If the farmer says: "I will ship my products abroad to the markets of the great world," he there meets the products of the ends of the earth. His wheat must compete with that of India, Russia and South America. His wool meets that from Australia, even in our own markets. The manufacturer ds that while, with the pre velopment in the United States, he can more than supply the wants of his countrymen in most lines, yet foreign competition jumps the protective tariff and shares the American market.

The English farmer has organized a great and powerful society in the hope of securing such remedial legislation as will keep foreign competition from driving him out of business. All over the civilized world there is the same apparent plethora of products, a great excess of supplies over apparent demand.

It is worth while here to remember that more than half of the people of the world are under-fed, indifferently clothed and not well housed. It is worth while to consider that a very small increment of the amount now consumed by this poorly-provided half would substitute a shortage for the

present over-supply. It may be overlooked that this under-fed half is, in general, not fully employed. It is easy to conclude that in the advance of civilization its machinery has somehow got out of balance.

The condition as to market for products and market for labor which confronts the world is the inevitable accompaniment, the necessary result of universally falling prices.

Whether prices shall always continue to fail, may be a question. Whether the process of leveling the compensation of labor to correspond with the wages in the countries where competition for places has forced the rates to insignificant figures, shall proceed until the low levels are universal, concerns many peo-Whether reductions in the scale of living shall offset increase in population for many years, may be open to controversy. Whether a policy of fos-tering by artificial means the diversification of industries in our own country, is a subject of dispute between leading political parties.

But that Kansas, under whatever development can be conceived, will always have a large surplus of agricultural products to market, is to be inferred from the character of her natural resources. For Kansas, then, the question of markets for products of her soil is an abiding and an important one. North of Kansas for several hundred miles is a similar country, except that the products of the soil change gradually with the increase in latitude. South, conditions are analogous, except that a different change is observable, products assuming the characteristics of a warmer climate. East lies the State of Missouri, with her immense agricultural resources. True, in southeastern Kansas and in country beyond, are mineral resources capable of large development and destined to furnish a demand for large quantities of farm products. To reach tide-water, our wheat and corn, our beef and pork have generally traversed the long route via Chicago. The shorter route via Galveston still requires that our surplus pay freight past many hundreds of miles of rich farming lands. It is the universally received and unquestioned truth that our markets are in a temporary state, in a formative condition. The present situation is unsatisfactory and the question of the betterments of the future has much to do with the desirability of Kansas land and the prosperity to be expected.

Only 150 miles |west from Kansas begins the mightiest mountain system of the world. Aside from a limited amount of fertile valley land, among these mountains, most of it already under cultivation, the entire region is unsuited to agriculture. But its min-eral resources, even its silver and gold, have scarcely been touched. That this vast mountain region will one day be the seat of vast mining and manufacturing industries cannot be doubted. The plains east of this region, of which Kansas is a conspicuous part, will supply these industries their agricultural products without a competitor on even When these mountains teem terms. with busy industries, other markets may interest us for comparison, but our surplus will find its consumers at our western doors.

WHY THE LOW PRICES OF WHEAT?

The persistency of the low prices for wheat is a surprise to statisticians, economic writers, dealers, speculators, millers, farmers and consumers, on both sides of the Atlantic. With the exception of a spurt a few months ago, the prices in the great markets have discounted all expectations for at least four years. Efforts have been made to account for this condition, and for this purpose considerable labor is now being expended. A Liverpool (England) writer, H. C. Woodward, writing to Dornbusch's London List, says:

"The course of the wheat trade for the first twenty years of my practical experience therein (say from 1863 to 1883), showed fluctuations between 65s. per quarter and 36s. (\$1.98 per bushel and \$1.09 per bushel), as about average top and bottom of the markets, represented in Liverpool quotations by about 13s. per cental, and 7s. 3d. per cental-occasionally the price going above 13s. but never for good milling wheat below about 7s.3d.—during that epoch.

'The advent of India as a fresh and strong competitor in the European markets about 1884-85, first knocked down prices to a new range, and inaugurated 30s. per quarter (\$0.91 per bushel) or 6s. per cental as a possible price for good wheat, never in our day previously

dreamed of.
"The advent of Argentina as a wheat exporter and competitive seller in our

markets (practically beginning to ship largely only in the past three years and culminating in 1894 with shipments at about seven million quarters) was the main reason for the further depression, first to 25s. per quarter (\$0.76 per bushel) and then to 20s. (\$0.61 per bushel)

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"I lay stress on the competitive selling because there is no doubt that a large quantity of wheat may be held and controlled by one country (such as America) without inducing the same depression as will be found when one seller competes with another in the same market.

"It seems quite absurd to me that any person conversant with the history of the wheat trade can ignore the effect of a fresh supply of wheat to the extent of seven million quarters from a country that only five or six years previously shipped nothing worth talking of-and then put down the depression of prices to dealing in futures and bear selling.

"Another obvious cause of reduced values is the increased size and speed of cargo-steamers and the reduction of the cost of ocean freight and inland carriage in America. The reduction in cost of transit in this way alone is esti-mated at 20s. per quarter (\$0.61 per bushel) and upwards, and would naturally make wheat-growing feasible at much reduced prices inasmuch as the cost of getting it to market in Europe is proportionately reduced.

The decline in the value of silver affecting Indian exchange, and the gold premium in Argentina, are also causes that cannot be ignored; and that tend to lower values here-in fact the bimetallists would have you believe these are the sole causes of the depressionbut I repeat, not one cause but many causes, are responsible.

"Another cause is the protective action of France and other countries, whereby the main stream of supply is diverted to Great Britain-in fact it is not difficult to conceive that if the acreage in Argentina and other countries placed under wheat is to increase at its recent rate, the price may not be even further reduced in good seasons, by the overwhelming supply."

OCTOBER OROP REPORT.

The October returns to the Statistician of the Department of Agriculture makes the general condition of corn 95.5 per cent. against 96.6 for September. In most of the Southern States the conditions have fallen since last report. The average of condition in the large and surplus corn-growing States are as follows: Tennessee, 99; Kentucky, 99; Ohio, 87; Michigan, 89; Indiana, 92; Illinois, 99; Wisconsin, 87; Minnesota, 94; Missouri, 111; Kansas, 80; Nebraska, 50.

The returns of yield per acre of wheat indicate a production of 12.58 bushels. being 6-10 of a bushel less than last October's preliminary (estimate. The indicated quality for the country is 85.7.

The preliminary estimate of the yield of oats is 29.6 bushels per acre, of rye 14.4, of barley 26.4. Condition of buckwheat is returned at 84.8, of Irish potatoes 87.4, tobacco 80.3.

Black Sand--What It Is. Editor Kansas Farmer:-Your favor of the 7th inst., enclosing sample of black sand and letter of the 30th ult., from Mr. Walker, of Cunningham, Kas. received this morning. The black sand is composed principally of the magnetic oxide of iron, although probably it is partly the non-magnetic oxide. Occasional grains of ordinary sand are in it, and a few other materials, but as Mr. Walker speaks of washing the sand out, I presume it is the black grains only which interests him. Such black sands are common in many parts of the In our State they have been observed the most frequently in the tertiary deposits of the west. In our neighboring State. Missouri, they are very abundant over an area almost seventy-five miles square, with Iron Mountain and Pilot Knob as central points. In many parts of New England and very commonly in the mountainous districts to the west, they are found in great quantities. Their original home was in the crystalline rocks, the granites, porphyries, syenites, etc. As these rocks decayed under atmospheric agencies, the grains of quartz, iron oxides, etc., which were less easily affected, were washed down the hillsides into the rivers, lakes and oceans, and deposited here and there, wherever they happened to lodge. As the greater portion of the material of the tertiary of western Kansas was brought from the mountains, very naturally the black sands would be included. Our rains wash the lighter soils away and leave the black sands behind on the hillside, or in the it was still dripping over on the other. | ton; The Value of Forecasts, by H. H. C. | use cottonseed meal,

streams with the other sands lingering behind the silt which has hurried towards the ocean, solely an account of their higher specific gravity.

In many places in gold-mining districts, black sand is looked upon favorably by gold-hunters, and not infrequently with good cause. This is readily understood when we consider that the grains of gold, too, often were included within the solid rocks. As the rocks decayed the gold grains would be carried downward with the sands of different kinds, and in that way help to produce the gold-bearing sands. But as the gold is so much heavier than the quartz sand, we have learned by experience that the latter will be carried much farther by running waters than the gold can be transported. The specific gravity of ordinary sand grains is about 2.5 to 2.8, that of the black sand from 4.9 to 5.2, and of the gold dust from 15.6 to 19.5, varying with the amount and kind of impurities contained within the gold. One will readily see, therefore, that the different black sands may have gold associated with them, or they may not, depending on the distance they have been transported from their original home, provided they were originally associated with gold in the rocks from which they came. The probabilities strongly favor the absence of gold from the black sands of Kansas. ERASMUS HAWORTH. Department Physiology, Geology and

Mineralogy, University of Kansas, Lawrence.

Kansas Weather Review for September.

Kansas weather review for the month of September, 1895, issued by T. B. Jennings, Observer Weather Bureau, Director:

This storm traveled to the southeast corner of the State. It was succeeded by hot, dry weather until the 22d (21st western part of the State), when a cold wave with rain swept across the State, the rain turning into snow in the northwestern counties, followed by a general frost on the morning of the 23d, which was severe over the western half of the State. The term, from the 9th to the 22d, was probably the hottest for that length in September ever experienced in the State.

TEMPERATURE.

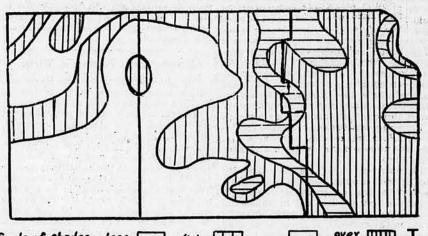
The mean for the State was 72.7 degres which is 4 degrees above the September normal; the highest monthly mean was 77.2 degrees, at | Ness City; lowest monthly mean 63.2, at Achilles; maximum temperature 110 degrees, at Phillipsburg, on the 13th; minimum 22 degrees, at Garden City, on the 29th; greatest local monthly range, 82 degrees, at Phillipsburg; least local monthly range 57 degrees, at Emporia.

PRECIPITATION.

The average rainfall for the State vas 1.71 inches, which is 0.51 below the September average; the greatest monthly rainfall was 10.12 inches, at Columbus; the least was no rain, at Coolidge, Morton county, and at the New England ranch, in Sheridan county.

In the western division it averaged 1.04 inches below the normal: in the middle division 1.35 below, and in the eastern 0.87 above; it was below normal over the entire State except in the counties drained by the Neosho and Verdigris rivers, where the excessive rainfall of the 8th occurred.

Thunderstorms occurred on Septemof September, 1895, issued by T. B. ber 2, 3, 4, 6, 8, 9, 16, 20, 22, 25, 28. Hail on the control of the contro



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ACTUAL RAINFALL FOR MONTH OF SEPTEMBER.

well marked this month, especially so storms on 19, 28. Killing frosts in northin the eastern division. The first eight days were cool and pleasant, with light scattered showers over the State, and good rains in the extreme eastern counties, culminating on the 8th, and night of the 8-9th in a storm, which condensed more wind, water, hail, lightning and thunder into the short space of twelve to sixteen hours than most people experience in months. It centered in the Neosho valley, and some descriptions of distant views of the electrical display have been received from Clay county, on the northwest side, and from Reno county, on the west side of the storm area. The storm spent Sunday morning, the 8th, gathering itself to-gether in the southeastern part of Morris and northwestern part of Lyon counties, from every direction, and about noon it began moving, taking a southeastward course, down the Neosho valley. On the east side of its center the corn for miles was blown down from the northeast, and on the west side from the northwest, the lay of the corn showing the path to have been twenty-five miles wide; the area of excessive rainfall covering a path about sixty, miles wide, while the area of destructive hail, though running in broad streaks or paths, was about fifteen miles wide, all hall storms on the east side of the center traveling from northeast to southwest, and on the west side from the northwest to southeast. In many of the hail streaks the leaves, fruit, and often the bark, were stripped from the trees, and the next morning the groves were as bare as in January. Four, eight and ten inches of water were measured in standard gauges, and on the morning of the 9th, a wagon-box (near the center of the storm path) fourteen inches deep, and standing isolated, was full of water, the wagon not standing quite level, as the water was only thirteen inches deep on one side while

west 23, 28, 29, 30, and general on 30. Aurora on 25.

Year-Book of the Department of Agriculture.

In view of the approaching session of Congress, and of the fact that the Yearbook of the Department of Agriculture will soon be ready for distribution among Senators and Representatives, to the extent of over 1,000 copies each, the accompanying table of contents may be of interest to dairymen, horticulturists,

and farmers generally: Report of the Secretary of Agriculture; Federal Meat Inspection, by D. E. Salmon; The Dairy Herd: Its Formation and Management, by H. E. Alvord; Some Practical Suggestions for the Suppression and Prevention of Bovine Tuberculosis, by Theobald Smith; the Pasteurization and Sterilization of Milk, by A. E. de Schweinitz; the Truck Lands of the Atlantic Seaboard, The Tobacco Soils of Connecticut and Pennsylvania ondition gions, by Milton Whitney; Mineral Phosphates as Fertilizers, by H. W. Whitney; Mineral Wiley; Fertilization of the Soil as Affecting the Orange in Health and Disease, by H. J. Webber; Grasses as Sand and Soil Binders, by F. Lamson-Scrib-ner; Water as a Factor in the Growth of Plants, by B. T. Galloway and A. F. Woods; Pure Seed Investigation, by G. H. Hicks; Grain Smuts: Their Causes and Prevention, by W. T. Swingle; Geographic Distribution of Animals and Plants in North America, by C. Hart Merriam; Hawks and Owis as Related to the Farmer, by A. K. Fisher; Crow Blackbirds and their Food, by F. E. L. Beal; Some Scale Insects of the Orchard, by L. O. Howard; The More Important Insects Injurious to Stored Grain, by F. H. Chittenden; What Meteorology can do for the Farmer, by M. W. Harring-

REVEREND GIBBONS.

His Narrow Escape from Chronic Malaria.

That Pe-ru-na cures chronic malaria needs no farther proof than the thousands of testimonials of grateful pa-tients. The Rev. Gibbons' testimonial given below, is a fair sample of what is

"Having been snatched from thu grave, as it were, by the use of Pe-ru-na I cannot refrain longer from writing to you. I am a minister of the Gospel and pastor of St. Paul church of this place. Last spring I was taken down with malaria fever after a severe attack of la grippe. Many of the friends and members of my church gave me up as hopeless. I had got down to a skeleton, and for weeks lay in bed, thinking to myself that I would nevermore be well; but, thank God, I began using your Pe-ru-na, and to-day I can truthfully say that there is no medicine like Pe-ru-na. I will answer any inquiring letters and inform the writer that Pe-ru-na is the medicine that saved my life. It is the best medicine in the

'REV. J. T. GIBBONS, Oakland, Tex.". The Pe-ru-na Drug Manufacturing Company, of Columbus, Ohio, will send a book on malaria free to any one writing for it. Ask your druggist for the 1896 Pe-ru-na Almanac.

Dunwoody; How Trees Grow, How to Plant a Forest, How to Treat the Wood Lot, and How to Cultivate the Wood Crop, by B. E. Fernow; Relationship between American and Eastern Asian Fruits, by L. H. Bailey; Facts Concerning Ramie, by C. R. Dodge; Best Roads for Farms and Farming Districts, by Roy Stone; State Highways in Massachusetts, by G. A. Perkins; Improve-ment of Public Roads in North Carolina, by J. A. Holmes; Education and Research in Agriculture in the United States, by A. C. True; Food and Diet,

by W. O. Atwater.
In an appendix of sixty-eight pages are published tables of the wholesale prices of the principal agricultural products in leading cities of the United States from 1890 to 1894, inclusive; of the exports and imports of agricultural products during the same period; of freight rates; of the composition and nutrient properties of human foods, and likewise of feeding stuffs for animals; of the fertilizing constituents of feeding stuffs; of the constituents of commercial fertilizers; of 100 principal weeds and the best methods of eradication; of the methods of controlling injurious insects, with formulas for in-secticides; of the weight, cost, best time to sow, etc., of the seeds of the principal grasses and forage plants; of the fungous diseases of plants and their treatment, etc. The book contains 147 illustrations.

Scientific Corn Huskers, 20 cents each, or three for 30 cents, postpaid. R. N. Thomas, Bingham, Iowa.

Despise not any man, and do not spurn anything; for there is no man who hath not his hour, nor is there anything that has not its place.—Rabbi Ben Azal.

Are You Hard of Hearing or Deaf?

Call or send stamp for full particulars how to restore your hearing, by one who was deaf for thirty years. John Garmore, Room 18, Hammond Bldg., Fourth and Vine, Cincinnati, O.

The beautiful catalogue of John Bauscher's Sunflower Poultry and Seed farm, at Freeport, Ill., is a book well worth preserving. The poultry il-lustrations are especially fine and should enable the amateur to identify any of the many breeds represented. The seed catalogue contains much valuable information, as well as a complete and profusely illustrated list of garden and flower seeds. Those who are fortunate enough to receive this catalogue will appreciate and keep it.

The advertisement of the Texas Cotton Seed Meal & Oil Co., of Kansas City, W. G. Peters, President, appears in this number of Kansas Farmer. Heretofore the Southern cattle feeder. who fed cotton seed altogether, had to ship his cattle at a certain period, no matter what the condition of the market. But since he has been mixing his cottonseed meal with corn he can hold the cattle as long as he desires. This feed gives a most excellent coat to cattle, which helps to sell them. Mr. Peters has had a personal experience in feeding cattle and would be pleased to meet cattle men at his office, at the Live Stock Exchange, and give any information he can regarding the feed for cattle. All large cattle-feeders near Kansas City, including the commission men,

Borticulture.

OROHARDING UNDER IRRIGATION.

(From Lute Wilcox's "Irrigation Farming.") As in garden irrigation, it is advisable to so arrange or lay out the tract that those crops which require the least water, will receive the least, and vice versa. In other words, do not mix everything in planting, so that the trees will have to be irrigated every time the small fruits are watered. We regard this an important precaution. However commendable impartiality may be as a maxim of irrigation, it will be found unsafe when applied to the details of water distribution. Plant the cherry trees, for example, where they will get the least irrigation. Next to them the pears and apples, although the latter will need considerable water the first season after planting. It is safe to say that a well-

established orchard would not, ordinar-

ily, require more than three good irriga-

tions during the year. Some would do with less, but this would be about the average.

As to the manner of running water, we would say that our experience leads us to prefer a head of water just sufficient to send a moderate stream gradually along the rows. This enables the moisture to penetrate the soil more thoroughly than a rapid current would do. If practicable, water should be run on both sides of the row. This is especially desirable in the case of forest or other trees on land that receives little or no cultivation. On most grounds water is usually run along several rows at the same time. Now and then soil is found that will admit of rapid irrigation, or, as it is sometimes called, sending water along with a rush. But this is the exception. Of course, where water is scarce and one is limited to a certain time in its use, the best that can be done is to use it as circumstances will permit. When the water has run its course turn it off. Do not let it soak and flood the

ground.

In orchard irrigation it is a good rule never to apply water so long as the subsurface soil—say at the depth of six or eight inches—will ball in the hand; and this is a test that should often be resorted to during the growing season The yield may be largely increased by the judicious application of water. That the fruit may also be increased in size and made more attractive is equally cer-At the same time judgment is required for the best results. Indeed, positive harm may be done by untimely irrigation, not only to tree and plant, but to the land as well. Incessant watering without regard to the condition of the soil or to the needs of the plant will often force a growth of wood at the expense of the fruit product and the fruit flavor. It may likewise cause a growth to be made which the succeeding winter finds immature and unable to withstand its tests. This will almost certainly be the result with any tree or plant that has a tendency to make a strong and succulent growth. Whenever late frosts are feared turn on the irrigation water in the orchard, and unless the frost is very heavy no damage will be done to the fruit. Irrigate not later than the latter part of August or the first days of September, so as to give the wood a chance to ripen. When water can be had irrigate once more in November or December, for the winters in irrigating countries are generally very dry, but never use more water than is needed to keep the soil moderately moist during winter.

Planting.-Plow and subsoil repeatedly, so as to thoroughly pulverize to a depth of twelve to eighteen inches. When planting upon lawns or grass plots,remove the sod for a diameter of four or five feet, and keep this space well worked and free from weeds. Dig sary to admit all the roots in their natural position, keeping the surface and subsoil separate. Cut off the broken and bruised roots and shorten the tops to half a dozen good buds, except for fall planting, when it is better to defer top-pruning until the following spring. If not prepared to plant when the stock arrives, heel in by digging a trench deep enough to admit all the roots, and set the trees therein as thick as they can stand, carefully packing the earth about the roots and taking up when required. Never leave the roots exposed to the sun and air, and puddle before planting. Fill up the hole with surface soil, so that the tree, after the earth has settled, will stand about as it did when in the nursery, but dwarf pears should be planted deep enough to cover the quince stock, upon which they are budded, two or three inches. Work the soil thoroughly among the roots, and when well covered tamp firmly. Set the trees as firmly as a post, but leave the surface but finally wears them out.—Rivarol. ded, two or three inches. Work the soil

filling light and loose. No staking will be required except with very tall trees. Never let manure come in contact with the roots. As soon as planted water thoroughly.

Apple 'trees can be planted twentyeight or thirty feet each way, or twentyfour by thirty-six feet, and a pear, cherry, plum or peach planted between the apple trees in the thirty-six foot Raspberries, gooseberries and space. currants can be planted in the rows between the trees, as they require about the same irrigation. Strawberries can be planted in rows four feet apart between the tree rows. Some will say this makes a ragged looking orchard. It does if the trees and bushes are never trimmed, and where planted with no order or system. In transplanting trees it is well to have the ditch water follow in a furrow close to the tree row, so that no time will be lost in moistening the ground and starting the young tree on its new life. A newly-set orchard will require more water the first year than any succeeding year, and the writer has made it a point to irrigate every fortnight the first year until Seper, when all water is shut off.

Cultivation.-The tendency of many inexperienced orchardists is to irrigate too frequently and too much at times when water is plentiful, and to endeavor to make this take the place of cultivation. This is a practice very destructive to the growth of all kinds of fruit trees, especially in heavy soils. The tendency of the soil after each irrigation is to sun-bake, and thus prevent a free cir-culation of air through it. It is for this reason that cultivation almost immediately after the water is drawn off is requisite to successful orchard growth under irrigation. Often a thorough stirring of the soil is as good, if not better, than an irrigation. Seasons also differ. During some the rainfall is sufficient to carry trees well into the summer without irrigation. If summer and winter mulching is practiced, less water is required, because a good mulch arrests evaporation and preserves an even temperature around the tree. In fact, we have known orchards with a good mulch thorough cultivation to pass through the season with but one water-ing. Occasionally the soil is sufficiently moist to permit of this without a mulch if the cultivation is good. But these in-stances are, of course, the exception, and will not do for a guide in any general sense.

The writer cultivates his orchard mostly with a double-shovel five times a year, allowing no grass or weeds to grow, as they greatly aid in harboring We do not grow corn or small mice. grain in the orchard, as these crops take the substance of the soil needed for the trees, which are certainly of sufficient importance to have the benefit of the entire ground. Melons can be grown without detriment. Put no crop in the or-chard after the third year. Mulching to delay blooming is not a success. The California plan is to plow the orchard twice annually, the first time as early as February, and again in April. Plow away from the trees the first time and toward the trees the second time. They keep up the cultivation almost constantly throughout the summer, whether irrigation is given or not. Some men use a chisel-tooth cultivator, others use a gang-plow. The duck-foot cultivator is a very common implement and gives good satisfaction, while some men go so far as to employ the onehorse weeder, in connection with other tools. Sandy soils do not require so much plowing as does a stiff soil, and for the latter the rolling cutter has been recommended. Old-fashioned farmers still use the drag harrow.

The author depreciates the use of whippletrees in an orchard, and uses the patent steel harness, that is devoid of these dangerous things, in orchard cultivation. It is well to observe the flat cultivation and to harrow or scarify the land both ways after each irrigation. By this method the land is easily kept free from weeds, and evaporation by capillary attraction is prevented. New irrigating furrows should be marked out with a shovel plow or a ditcher just before each irrigation throw the earth back again after irrigation so as to better retain the moisture that has been given. It is well to remember that irrigation can better be dispensed with than can cultivation.

Ayer's Hair Vigor, which has outlived and superseded hundreds of similar preparations, is undoubtedly the most fashionable as well as economical hair-dressing in the market. By its use, the poorest head of hair soon becomes luxuriant and beautiful.

Pear Blight.

The Secretary of Agriculture gives the following suggestions relative to pear blight: "Pear blight is caused by a very minute microbe which enters the tree at the blossom cluster, or at the tip of the tender growing shoot. It may destroy only the blossom cluster, or a few inches of the twig, or it may run downward several feet, killing large limbs or even whole trees. same microbe causes apple twig blight and quince blight. Most of the damage frim this blight is done during the first month of growth, beginning at blossom time. After running downward for a few inches or a foot or more, the disease usually comes to a standstill. When it has stopped, a definite crack forms in the bark, separating the live and dead portions. When the dis-eased portion blends off into the live part, it shows that the disease is still progressing. Below the blighted por-tion the tree may be perfectly healthy, as the blight kills only as far as it reaches. Healthy, thrifty, rapidly growing trees suffer more when attacked than those not so vigorous. In certain cases the blight does not stop, but keeps on slowly growing in the bark till the close of the season. After this such cases continue progressing slowly, the new blight for each year coming from germs which lived over from the preceding season's cases. The remedy for the pear blight is to exterminate the microbes which cause the disease. This can be done by pruning out the old blight in the fall or winter, thus preventing the microbes from living over. In mild attacks where there is but little blight, and wherever practicable, it is best to cut out the blight as soon as discovered. Complete destruction of the blight should be carried out in the fall, as soon as all late growth has ceased. In cutting out the blight, care should be taken to cut on the sound wood below

Keeping Sweet Potatoes in Winter.

The editor of Southwestern Farm and Orchard, Las Cruces, N. M., writes on keeping sweet potatoes, as follows:

"In this latitude, sweet potatoes that are intended for winter and spring use, should be grown from cuttings in July rather than from the spring plants. There need be no trouble in keeping sweet potatoes, if the conditions proper for their preservation are observed. The first thing essential is to get the potatoes out of the ground in the proper shape. They should not be dug when the ground is wet or the weather cold, if it can possibly be avoided. The tuberous roots of the sweet potato are very sensitive to cold and wet and should not be exposed to either. When frost should be cuts the vines they at once cut from the hill, even if the digging cannot be done at once, for there will at once be a fungus growth on the dead vines that will affect the roots if the vines remain attached.

"Select a warm, sunny day for digging. The earth can be thrown away from each side of the rows with a plow, but we prefer to take the potatoes out by hand, as it is necessary to handle them with the utmost tenderness if they are to be expected to keep. In digging do not allow the potatoes to be thrown in piles, but let them lie scattered along the row where dug so that all will get well sunned. They can be well kept in banks outdoors if a shelter is built to exclude the rain from the banks. In hauling from the field the same care should be used in hauling them that is observed in digging. Gather them up in boxes or crates and never dump them into a cart body. Throw out all the bruised potatoes for immediate use, for if these are placed in the heaps they will start decay. ve ready under cover plenty of dry straw. Put a layer not less than a foot thick on the ground where the heaps are to be made, and have the heaps in a row where no water can run under them, and where you can build a rough shed over them. Carefully pile about

ATTENTION.

Should be given at once to any symptom or signs of disease as soon as they manifest themselves. By so doing you may save much suffering and expense. DR. HATHAWAY & CO., the experienced an established specialists, have devoted years to the exclusive treatment of those delicate and private diseases of men and women. diseases of men and women.

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Apply a particle of the Balm well up into the nostrils. After a moment draw strong breath through the nose. Use three times a day, after meals pre-ferred, and before retir-



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twenty-five bushels in a heap on the bed of straw and then cover the pile thickly with the dry straw. When all are thus covered, put a shed over the whole and let them lie, with only the straw cover, until they go through the inevitable sweat and dry off again, and as the weather gets colder, put a good cover of earth over the whole of each pile and pack it smooth. The shed keeps the earth cover dry, and dry earth keeps out a great deal more cold than wet soil. Potatoes that are chilled will not keep. While the keeping of the Irish potato depends on a low temperature, the sweet potato needs to be kept

Barreling Apples.

Many of the most profitable opera-tions in commercial life depend in the first instance upon very simple facts Most persons would pass by without observing the barreling of apples as a case in point. If apples were placed loosely in barrels, they would soon rot, though passing over but a very short distance of travel; and yet, when properly barelled, they can be sent thousands of miles even over the roughest ocean voyage, in perfect security. This is owing to a fact discovered years ago, without any one knowing particularly the reason, that an apple rotted from a bruise only when the skin was broken. An apple can be pressed so as to have indentations over its whole surface without any danger of rotting, providing the skin is not broken. In barreling apples, therefore, gentle pressure is exercised so that the fruit is fairly pressed into each other, and it is impossible for any one fruit to change its place in the barrel on its journey. Apples are sometimes taken out of the barrels with large indentations over their whole surface, and yet no sign of decay. In these modern times, we understand the reason. The atmosphere is full of microscopic germs which produce fermentation, and unless they can get an entrance into the fruit, rot cannot take place. A mere indentation without a rupture of the outer skin does not permit of the action of these microbes. This is a simple reason why the early observation enabled the barreling of apples to be so successful. Meehan's Monthly.

A Nebraska Peach Orchard.

The summer meeting of the Nebraska Horticultural Society was held at Wymore, on the 23d to 25th of July, the principal feature of which was a visit to the large commercial peach orchard of a Mr. Russell, which is some ten miles south of town, adjoining the north line of Kansas.

Some fourteen years ago Mr. Russell commenced planting orchards and put out a large apple orchard-some seven acres of which were seedlings-with the view of producing new varieties, and about fifty acres of peaches of some thirty-five or forty varieties.

After the peach trees were large enough to bear there were a few winters with a "cold snap," in each one when the mercury went low enough to kill the buds. He had the first peaches in 1887 and soon after found he was getting nearly all his fruit from a few varieties, which gave him so much confidence in them that he extended his plant, till now he has over 150 acres in peaches alone.

The principal varieties planted now are the Alexander, Early Rivers, Hill's Chili, Coolridge Favorite, and a local variety called the Wright Seedling. He also had a few Hales, and the Champion is fruiting this year for the first time; the Crosby he has not yet tested.

The crop this year was light, from the fact that when the trees were in bloom there was a cold dry wind that blasted a large quantity of bloom, yet his crop was about 15,000 baskets, which he sold at 50 cents per basket, of which five make a bushel.

As he has no competition, the fruit was sold for a high price at the orchard and adjoining towns, the seconds and culls bringing about as much as Southern growers get for their first-class fruit when shipped North.

The advantages claimed for growing peaches in this section are, that on these high dry prairies they go into winter with well ripened and dormant buds, and if the cold is not severe enough to kill the buds a crop assured, as they have never been killed by spring frosts.

Mr. Russell believes in thorough cultivation, all weeds being kept down and the surface ground kept loose with a disk harrow, and with this method and with these varieties he finds a peach orchard much more profitable than any apple orchard in this section.

In the Dairy.

Conducted by A. E. JONES, of Oakland Dairy Farm. Address all communications Topeks. Kas.

A "Dutch Cheese" Plant.

This is the sort of news that reaches us by way of San Francisco, where it appears in a daily newspaper as a dispatch from Sioux Falls, S. Dak., and if it keeps on we shall soon, no doubt, learn of plants being discovered that may taste like other cheeses, and eventually some that may pass for butter:

"J. E. Mills conducts a creamery at Mellette. Early in the spring he discovered a plant growing in a little hole at one side of the creamery. He did not at first know what it was, and thought he would try an experiment. So every morning he would empty a pail of soured milk on the plant. It turned out to be a summer squash vine, and last week one squash got ripe. It was cut open and found full of a substance which resembled and tasted like "Dutch cheese." Mr. Mills will keep the seeds and plant them next year to see what they will produce.'

Making Dutch Gouada Cheese.

This cheese, which is made in Holland, is described very appropriately by a correspondent of an exchange as one of the most popular of continental manufacture. As the milk is brought from the fields, it is put into pans and the rennet promptly added. Rather less rennet is used than is customary in the case of home-made cheeses. By the time the evening milk comes in, the morning's supply is ready for cutting up. For this purpose a painted wooden bowl is used and the whey drawn off. The first whey is put aside in a tub, and the curd thoroughly broken, knead ed and salted. The round vats are next resorted to. They are rinsed in the whey tub, and the curd is pressed into them. The cheese-maker then presses the curd, and after sufficient pressure to obtain cohesion the mass is turned out. It is subjected to further coaxing with the hand and then tied up with a cloth, when it is again trans-ferred to the vat and put into a gailypainted cheese press until morning. After one night's pressure the cheeses are put into strong wooden boxes, and every day for eight days they are taken from the vat, rubbed outside, and put back again into the vat, which is rinsed in fresh whey. There was no apparent effort to control the temperature at ripening. Indeed, it must have risen much beyond 60 or 70 degrees, which is generally considered the most favorable temperature for the effective performance of this operation. The cheese may be marketed at the end of eight days, and they are frequently eaten a fortnight old, at which time the best of them are almost as soft as butter and much superior to anything known here as Dutch cheese.

Oleo Legislation in Illinois.

The Legislature of Illinois is in extra session, having been called together by Governor Altgeld, among other purposes, to legislate for more revenue. Taking advantage of this situation, Representative Needles has introduced his original anti-color bill, that was surreptitiously strangled in the Senate at the regular session, adding thereto, in order to bring it within the juridiction of the Legislature in special session, a revenue clause, imposing a special tax on all manufacturers and dealers in oleomargarine. Commentdealers in oleomargarine. Commenting on this the Chicago Produce says:

"It is said that when Representative Needles introduced his dairy bill in the special session of the Legislature last week, with the revenue clause attached, a cheer went up from the members of the House, and that the measure of any bill introduced for a long time.

"The House was a friend to the Needles bill first, last and all the time. Members of the House at the last week of the regular session made every effort to force the bill through the Senate, and because of its failure to pass last reading in the latter body, retaliated upon some important Senate bills, which Cook county was very desirous of getting through. The cow-ardly manner in which the Needles bill was killed in the Senate has made its friends very indignant in the House, and it would not be at all strange if they would take it upon themselves to see that the bill in the amended form gets through the special session. And in the amended form the bill is much more obnoxious to the butterine people, and will require more than \$40 .-000 to defeat.

"Nothing but boodle can prevent the

pure butter people geting protection for the consumers of their product, and it will take more money than the oleo-margarine people will care to put up to keep an anti-color law from being passed sooner or later. The pure butter people can spend one thousand dollars in an honest campaign and make the oleo people spend forty thousand in boodling, with the prospect of getting caught at it sooner or later. "The absurd claim of the oleomar-

garine people that their business is necessary for the success of the packing business at this point does not go down the throats of intelligent men. It is an old story of corporations from time immemorial. Another threat that the Chicago packers will be placed at a disadvantage compared with Kansas City and Omaha packers is also absurd, be cause both Missouri and Nebraska, in which latter this business is located, are under protection of anti-color laws, and it is but a matter of very short time when Kansas will also have the law. It is probable that such an enactment will be put through at the very next session of the Kansas Legislature.

"It has been asserted by prominent Chicago manufacturers of oleomargarine that they will spend a fortune before they will permit the anti-color law to go onto the statutes of the State. This means that they will spend money buying legislators. Let's see how many are for sale."

The Churn vs. the Babcock Test.

A most instructive object-lesson was brought out in connection with the sweepstakes dairy herd and individual cow test at the recent Bay State fair at Worcester. The superintendent of the dairy department is a strong advocate of the Babcock test, and for the instruction afforded, samples of buttermilk were taken from each churning and tested by the Babcock method. Much to the surprise of all interested. it was found that the percentage of butter fat in the buttermilk, from the ten cows entered in the individual test, varied from two-tenths to 5 per cent.

So great were the losses of fat that the awards were really decided by the churn rather than the true butter capacity of the cows. In the case of one cow, that ranked sixth in the churn test, the loss of butter fat (3.4 per cent.) was, with little doubt, sufficient to have given her either first or second place had each cow been credited with the butter lost in the buttermilk.

Unfortunately, no weights of buttermilk were taken, but it seems reasonable to assume that the weights of butter-milk would not have differed materially between cows producing from one pound seven ounces to one pound ten ounces of butter in twenty-four hours, all of the cream having been separated by the same separator. It may be justly held that these losses of fat are abnormal and unnecessary, but the conditions at fairs are not favorable for the most skillful manipulation of cream, and while, no doubt, had greater care been used in ripening and churning, the losses would have been much less; yet with the best of care, the losses will be greater than would occur in actual practice in the creamery or private dairy.

The question which naturally arises is, shall the cow be accountable for the inefficiency of the manipulator and the churn? Certainly the cow was not at fault for the poor ripening and churn-ing done at Worcester. The proof is rapidly being established that no test, except one based on the amount of butter fat actually contained in the milk, can do the cow full justice. This is simply another victory for the Babcock test .- C. S. Phelps, Storrs' Agricultural College, Connecticut.

It has been decided to hold the convention of the National Butter Makers' speciation at Cedar Rapids, Iowa some week in next February. Present plans contemplate the awarding of a grand trophy prize of pure silver, representing a butter-maker at work, the commercial and artistic value of which will be \$500; association cup of the value of \$100, and gold, silver and bronze medals. It is also intended to set up a practical working creamery the convention and operate it with the hest skilled butter-makers to show what a model creamery should be. If present plans are carried out there ought to be a large attendance.

The Iowa State Dairy convention will be held at Waterloo, Iowa, Tuesday, Wednesday and Thursday, November 12, 13 and 14.

Have patience awhile; slanders are not long-lived. Truth is the child of time; ere long she shall appear to vindicate thee.



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Rapid Dish Washer. Washes all the
dishes for a family in one minute.
Washes, rinnes and dries them
without wetting the hands. You
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and obserful wives. No scaled
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One-half cheaper than wood or coal. No smoke. Goes in any stove or furnace. Want Agents on salary or commission. Send Manuague of prices and terms.

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A FARM! IN KANSAS.

A big prolific farm cheap. Cheap because the owner is too busy and too far away to run it. The Mt. Pleasant Stock Farm, at Colony, Anderson county, East Kansas 1,439 acres of land; fine buildings. Wri for booklet with surprising offer. Write

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NOVEMBER 14.

Special Train, Lowest Rates, Extra Comfort and a Good Time.

This Excursion is designed for home-seekers who want to locate in the Beautiful Land of Sunshine, Fruits and Flowers, especially those who want to visit

FAIR OAKS AND OLIVE PARK,

in the heart of California, and get a piece of the best land in the State, where the best and earliest fruits grow; in the best climate and adjacent to the best markets in the State; near a big city; water plenty, piped to each lot; electric cars, etc. Better still, considering advantages, the cheapest lands in the State. Address the FARM, FIELD AND FIRESIDE COLONY DEPT., Chicago, Ill.

Capillary Attraction.

A correspondent of the Ohio Farmer offers a discussion of this subject, which may bring out some valuable experience from those who have observed the action of water in soils. This writer says:

"A tube, the bore of which is so small that it will only admit a hair is called a capillary tube. When such a tube of glass, open at both ends, is placed vertically in water the water is observed to rise in the tube and stand within the tube at a higher level than the water on the outside. The action between the capillary tube and the water has been called capillary action, and the name has been extended to many other phenomena which have been found to depend on properties of liquids and solids similar to those which cause water to rise in capillary tubes.

"If the lower side or corner of a piece of sponge or a lump of sugar is touched to the surface of water the water will rise and diffuse itself through them. This rise of the water and the rise of the oil in the lampwick to feed the flame are supposed to be capillary action, or attraction, as it is sometimes called.

"Dr. J. L. Comstock in his philosophy says: 'The cause of this rise seems to be nothing more than the ordinary attraction of the particles of matter for each other. If this were true, the temperature of the capillary tube and the liquid would make no difference, whereas capillary action diminishes as the temperature of the tube and the liquid increases, and at the boiling point of water its action ceases altogether.'

"The subject is interesting to farmers because it is believed by many that through this provision of nature they can, with proper exertion, secure sufficient moisture from the depths of the earth to sustain their crops through

the severest droughts.

"From how great a depth does capillary action bring up water? There is certainly a limit beyond which capillary action ceases to act.

The writer was down in a coal mine 500 feet deep, where water was so plentiful that ten steam boilers were required to make steam to drive a powerful engine and pump night and day to remove the water so that the mine could be worked. Water was too plentiful at the depth of 500 feet, but a great drought was prevailing at the surface. Water was plentiful much nearer the top of the ground. The wells were not deep, and there was water enough in them for ordinary use, but it did not come to the surface unless raised by a pump. It had got below capillary action.

"Beneath the city of Kalamazoo, Mich and the valley in which it is situated, at a depth of 160 feet, there is an inexhaustible stratum of water, which, when tapped by the drill, rises nearly to the surface. It is no doubt forced up by the pressure of the water which is percolating down from the high hills that surround the valley. The city, containing 18,000 inhabitants, is abundantly supplied by wells dug to this great natural reservoir, and distributed by the necessary waterworks. Water is also found here by digging wells of the ordinary depth. At the time of my visit the meadows were brown, the pastures dried up, and all vegetation was suffering for water, except the celery and onions in the celery swamps. There was no green to be seen in the fields, and the grass in the public parks had to be sprinkled daily from the waterworks to keep it alive.

"There is said to be water enough under the great desert of Sahara. Wherever artesian wells have been put down, a plentiful supply has been found, and if capillary action would bring it to the surface there would be no desert there. Evidently capillary action will not raise water 160 feet, nor 60 feet, nor 6 feet.

recently declared that: 'A sufficient amount of moisture stored in the earth would supply the wants of crops even if no rains fell from the time of plant-ing until harvest time.' To store up a sufficient amount of moisture he advocated plowing and subsoiling to the depth of two feet. Such deep tillage would be very expensive, and, according to my experience, of no use whatever,

below a certain depth.
"When the North Branch canal was dug, I observed that where an embankment of earth had been wheeled out and dumped, the lower side extending to the water's edge, the earth was wet a few inches above the surface of the water. The line of moisture was very uniform and looked as if the river might have been higher and fallen, which was not the case. If there had been no limit to capillary action there was nothing to hinder the moisture from the river from

having ascended twenty feet or more. "I have frequently help draw dirt

and place it on a race bank to prevent the water from running over. When the water touched the new dirt it would soak up a few inches above the surface of the race and there stop.

"A neighbor, when leaving his 'sugar works' at night, threw his woollen strainer across the side of the 'store trough,' which was full of sap. In the morning he found the store trough half emptied. Had somebody stolen it? Nobody would be likely to carry off two or three barrels of sap. Had cattle drank it? There were no tracks. On examination he found that the woollen strainer had done the mischief. The sap had ascended the strainer and gone over the side of the trough where there was a great puddle on the ground. The only reason why the store trough had not been entirely emptied was because capillary action has a limit which it cannot go beyond.

"Kerosene oil, being lighter and more volatile, will no doubt ascend higher than water by capillary action. It has been found by experiment that about twelve inches is the utmost height to which oil will ascend in a lamp wick.

"On my land I feel quite sure that capillary action does not extend below the depth of eight or nine inches. When the ground gets dry to that depth, no help comes from below, and the sole dependence for farm crops must be on the dews from heaven, condensation of moisture from the atmosphere, or irri-

Cheese Notes.

The new Colorado dairy bill prohibits the making and selling of filled cheese under any guise whatever. This ought to serve as a great promoter of the cheese industry in that State.

The cheese factory operated by Frank Ouradnik, in Casco, Wis., was destroyed by fire, together with a large part of its contents, early the present month. A fire also destroyed the factory of Geo. A. Drexler, near Askeaton, Brown county, Wisconsin. The total loss in this case was \$1,200 with an insurance of

One of the largest shipments of cheese this season is about to be made by S. R. Udell & Co., of this city, says the Gazette, of Green Bay, Wis. It consists of 100,000 pounds of Cheddars, being 1,500 boxes, which has been sold direct to English dealers through the Chicago house of S. R. Udell & Co. This cheese comes almost entirely from Brown and Calumet counties, and is shipped direct to England. It goes by the Lackawana line of steamers down the lakes to Buffalo, thence by rail to New York, and is there loaded onto the trans-Atlantic lines. The time consumed in transit will be between two and three weeks. The large cheese is sold entirely for export, as it keeps better and there is less waste.

The low price of cheese at the present time ought to largely increase its use as food, says the American Cultivator. We do not make half the use of cheese that we ought. It is the most nutritious and healthful substitute that can be wished for meat, and it is so used largely in Europe. Cheese is rich in the kind of nutrition that gives strength. The only objection to it as food is that if eaten in large quantities it is hard to digest. But cheese is never eaten except with bread or cake, and the fact that it is hard to digest helps to strengthen the organs of digestion by giving them a difficult task. The cheese is also an admirable supplement to the bread, which is mainly starch, and the two kinds digest better together than either would if eaten without the other.

It is sometimes supposed that scrub cattle are hardier than thoroughbreds, but this is not the fact unless the particular strain of thoroughbreds has been unwisely inbred.

Homes for the Homeless.

The opening of two Indian reservations in northeastern Utah to settlers opens up over three and one-half million acres of fine agricultural and stock-raising land for home

The Uintah and Uncompangre reservations are reached by the only direct route, the Union Pacific system, via Echo and Park City, E. L. LOMAK, G. P. & T. A. U. P. system, Omaha, Neb.

"Among the Ozarks,"

the Land of Big Red Apples, is an attractive and interesting book, handsomely illustrated with views of south Missouri scenery. including the famous Olden fruit farm of 3,000 acres in Howell county. It pertains to fruit-raising in that great fruit belt of America, the southern slope of the Ozarks, and will prove of great value, not only to fruit-growers, but to every farmer and home-seeker looking for a farm and a nome Mailed free. Address,

J. E. LOOKWOOD, Kansas City, Mo. Dodder in Alfalfa.

The fact that this parasite has appeared on alfalfa in Kansas was fully shown by correspondence from Prof. B. B. Smyth, in a recent number of the KANSAS FARMER. An article in The Californian sheds additional light on the subject. Speaking of remedies, that paper says:

"As the dodder is apt to spread rapidly when once established in an alfalfa field, some effective remedy alone can prevent this, and at the same time eradicate the pest. Probably the most effective remedy and one easily suggested, is the burning of the infested area. If this is done in late autumn the best results will doubtless follow, as at this time the seeds of the dodder have but recently reached maturity and are either still in the seed capsules or simply resting on the surface of the ground. In either case a quick, hot fire, burning close to the ground, will suffice; and if such, will probably do no injury to future crops of alfalfa from the same roots. The standing alfalfa mowed and allowed to dry for a day or two probably would furnish sufficient heat. Sulphate of iron-green vitriol—if sprinkled upon the dodder is said to kill it, without injury to the alfalfa. Better than any remedy, however, is a means of prevention. The seed of this vine is much smaller than that of alfalfa and has a blotted appearance. This is a character not at all presented by the seed of alfalfa, which is perfectly smooth, and may be used with safety as a decisive character in distinguishing between the two. A hand magnifier, such as ordinarily carried in the pocket, is necessary in perceiving these dots. Owing to the marked difference in size between the seeds of alfalfa and dodder, a sieve of proper mesh-say twenty meshes to the inch -will serve to separate the two."

Old Mexico.

Modern Mexico is a beautifully illustrated monthly journal, published in the English anguage, and devoted to the interests of Mexico. Send 10 cents for sample copy. Address Modern Mexico Publishing Co. Topeka, Kas. Mention KANSAS FARMER.

Falsehood always endeavored to copy the mien and attitudes of truth.-Johnson.

To overcome evil with good is good, to resist evil with evil is evil .- Mahommed.

FREE TO INVALID LADIES.

A lady who sufered for years with uterine troubles, displacements, leucorrbosa and other irregularities, finally found a safe and simple home treatment that completely cured her without the aid of medical attendance. She will send it free with full instructions how to use it, to any suffering woman sending name and address to

MRS. L. HUDNUT, South Bend, Ind

It is Not Paradise, But-

If you have some cash to spare and are willing to work, finan-cial independence cannot be more surely secured than by buying a few acres of irrigated land in Salt River Valley. This valley is in Southern Arizona, and is noted for its fine

semi-tropical fruits and superior climate. Horticulturists say that greater profits can be realized here from oranges and grapes than in Florida or California. Physicians assert that the warm, dry, bracing climate excels in airs. The great blizzard of 1895 did not blight the tenderest leaf in this protected spot.

To get there, take Santa Fe Route to Phœnix, A. T., via Prescott and the new line, S. F., P. & P. Ry. Address G. T. Nich-olson, G. P. A., Monadnock Building, Chicago, for illustrated folders. They tersely tell the story of a remarkable country. Actual results are given — no guess-work or hear-say.

It is the Salt River Valley.

Cattle hides and all sorts of skins whole for RORES of skins whole for RORES and RUGS. Soft, light, moth-proof. Get our tan circular. We make galloway fur coars and robes. If the skeep them get catalogue from us stand FUR Co., Box 58, Rochester, N. Y.

SEND 50 CENTS

(In postage stamps) for a regular \$19.00 sait or visuar
overcost. FOR COAT, FEBT 120.00 VERCOAT

MEASURE, state number of fasches around body at
chest, measuring to terrinches around body at waite, size
Particular body at hips, state length of panis by measure
around body at hips, state length of panis by measure
from tight in cretch to be ale. \$0,00 Razoura \$15.00

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BURU WOOL BAVET, eleganity lined and trimmed and all
fine Tallor made. BUTTS are made from fine heavy imported very dark gray wool Cherlot, maker a neat, dressy,
which is not to the control of the contr

and express charges, otherwise don't pay a coal. WH BERTI Fars cloth samples of most and boys clothing clate big cities and large states. BARG, ROBBING STREET, BOYS OF THE STREET, BOYS OF THE STREET, BOYS OF THE STREET, COLOR OF THE STREET,

TWO-CENT COLUMN.

"For Bale," "Wanted." "For Backange." and small sdoorteements for short time, will be charged two cents per word for each insertion. Incitals or a number counted as one word. Cash with the order.

Special:—All orders received for this column from misorthers, for a limited time, will be accepted at one-balf the above rates, each with order. It will pag. Try til

TOR SALW — Forty head registered Short-horn Cattle, from the noted Young Mary, Duchees, Cruickshank, etc. Farm to rent. Theodore Saxon, St. Clere, Pottawatomic Co., Kas.

DO YOU WANT TO MAKE \$2 TO \$5 PER DAY putting in our Fit-all Stove Bepairs? If so, write the Topeka Foundry, Topeka, Kas.

A NNOUNCEMENT TO DAIRYMEN.—A dairy Alocation, thirteen miles from Kansas City, on through line of railroad, is for rent, or will be put into stock of a dairy company, organized for the purpose of handling it. The place is equipped with cattle barn having mangers and water fixtures. for 126 head of cattle; silo, with capacity of 500 tons; steam engine, grinding mill, feed-cutters, etc., and is only forty rods from depot. A sufficient amount of best bottom land for support of 200 head of cows goes with the place. Address Edwin Taylor, Edwardsville, Kas.

TO EXCHANGE.—Do you want to go into business or give your boys a chance? Have you a good city or suburban property, or good farm worth \$15,000? I have a good business located in the livellest 3,000 town in Missouri: established the livellest sept busy all through the hard times; a rare chance. Address Robert Thomson, Lucas Building. 8t. Louis, Mo.

FOR SALE—A few Cotswold bucks. Address Jas. Walton, Newton, Kas.

FOR SALE—White Plymouth Rock chickens. Hens, 50 cents; cockerels, \$1. Inquire at KAN-SAS FARMER office.

WANTED-To exchange a cow for fresh milch cow. Jersey preferred. Will pay something to boot. Inquire at KANSAS FARMER office.

WANTED—Buyers for 100 cockerels. A few pullets of Light Brahmas. Barred Plymouth Rocks. Black and White Langshans. For prices apply to Mrs. B. F. Scott, Burlington, Kas.

WE MAKE AND FULLY WARRANT THE Arched Hedge Trimmer, a mowing device that will cut a mile of hedge in two hours as smooth as can be done with a hand shears in a week. Price only \$25. E. C. Gordon & Sons, Chetopa, Kas.

DOUGLAS COUNTY NURSERY—Offers for fall and spring trade a general supply of all kinds of nursery stock. Send for catalogue. Address Wm. Plasket & Son, Lawrence, Kas.

WANTED—To rent a farm in eastern Kausas stocked with thirty or forty milch cows, to tend farm and keep cows on shares. Preferable near to creamery. Isaac Betts. Hough, Russell Co., Kas.

TO FRUIT, MARKET GARDENERS AND POUL-trymen —For rent. eighty-acre fruit and truck farm. five miles from Topeka. For particulars ap-ply to "E. W. S.," care KANSAS FARMER, Topeka.

FOR SHORT-HORN BUIJS—Calves and year-lings, extra fine, write D. P. Norton, Council Grove, Kas.

FOR FXCHANGE. — Finely located and choice rental and business properties in Kansas City or Topeka to trade for farms, stock ranches or wild lands. Send numbers and full description in first letter. I will make offers. John G. Howard, Topeka, Kas.

FOR RENT — Photo gallery, Syracuse, Kanssa. County seat, no competition. Address Box 119, Syracuse, Kas.

10 EXTRA FALL GILTS AND FIFTY SPRING pigs, the pigs sired by Tecumseh J. Corwin 10744 S. and the great breeding and show boar Riley Medium 12806 S. E. T. Warner, Princeton, Franklin Co., Kas.

STEAM CIDER MILL—Two miles west of Ksn-sss avenue, on Sixth street road, Topeka. Farm-ers, bring your apples Tuesdays, Thursdays and Saturdays of each week until December. I will make cider for you at 2 cents per gallon. H. W.

WANTED-Young ladies and gentlemen to learn bookkeeping, stenography and office work. Limited number pay expenses by assisting two hours daily. Address H. Coon, Secretary, Kansas City Mo.

WR TE—To Alex. Richter, Hollvrood, Kss., for information concerning sub-irrigation. Enclose 2-cent stamp for reply. Manufacturer of galvan-ized sub-irrigation pipe.

FOR A GOOD HAND-SEWED BUCK, CALFOR kid glove or mitten, address Mrs. Ed. Warner, Lexington, Clark Co., Kas. Reference: KANSAS

TOR SALE—Hereford bulls sired by a son of Mr Funkhouser's celebrated Heslod. Apply to Peter 8im, Wakarusa, Kas.

WANTED—Sale bills, horse bills, catalogues and other printing. A specialty at the Mail job printing rooms, 900 North KansasAve., North Topeks.

THE FINEST HONEY—Is gathered from alfalfa and cleome blossoms. You can buy it of the bee-keeper, chesp and in any quantity, by freight, and know it is genuine. Address Oliver Foster, Las Animas, Colo.

WE MAKE A GOOD FARMER'S SPRING WAG-on, two lary backs and let-down end-gate, for \$55. Warranted. Kinley & Lannan, 424-426 Jackson street, Topeks.

WANTED—Buyers for Large English Berkshires.
One hundred pure-bred pigs, farrowed in March and April, are offered for sale at from \$10 to \$15 each. Farm two miles west of city. Riverside Stock Farm, North Topeka, Kas.

\$75 a month and expenses to competent men and women. Write for particulars at once. E. C. Morse & Co., 56 Fifth Ave., Chicago.

The Beterinarian.

We cordially invite our readers to consult us shenever they desire any information in regard to sick or lame animals, and thus assist us in making his department one of the interesting features of the KANSAS FARMER. Give age, color and sex of animal, sating symptoms accurately, of how long standing, and what treatment, if any, has been reotted to. All replies through this column are free-sometimes parties write us requesting a reply by mail, and then it ceases to be a public benefit. Such requests must be accompanied by a fee of one dollar. In order to receive a prompt reply, all letters for this department should be addressed direct to our Veterinary Editor, Dr. S. C. Orr, Manhattan, Kas.

PIGS DYING.—The treatment given by W. R. T. is not in the last issue of the Kansas Farmer, as you stated. I have not lost any more pigs, but there are two or three that have the thumps and some have little warts that get scabby. A. R. J.

Roxbury, Kas.

Answer.—The mistake was ours. The advice to W. R. T. is in the issue of September 18. Keep the pigs in clean quarters and grease the warts every other day with lard.

LICE ON PIGS.-My little pigs are full of lice and I do not know what to C. S. do for them.

Holton, Kas. Answer.-Take one pound of common laundry soap and dissolve in half a gallon of water. Take from the fire, while boiling, and stir in one quart of kerosene and set aside to cool. Now make a strong suds of this and warm water, and spray over the pigs, or, what is better, catch them one at a time and wash them with it. Repeat this once a week till the pigs are entirely rid of the lice. All old bedding must be gathered up and burned and the pens

Auction Sale of Thoroughbred Stock.

scrubbed with boiling water and lye

and then whitewashed.

Of late years public sales of thoroughbred stock, especially hogs, have become quite popular, and undoubtedly would be more so if it were not for the traveling and other expenses connected with attending them, which in many cases amounts to as much as the cost

of the stock purchased.
Mr. Willis Whinery, of Salem, Ohio, has originated and put in practice a plan that does away with the objections mentioned and still retains the desirable features of an auction sale. He issues a descriptive catalogue, accurately describing each animal; bidder sends in his bid by mail, bidding on any animal or more that he is in need of; if your bid is successful the stock will be shipped to your express office, and if as described, you settle with the express agent for it. You make no mistake bidding on this stock unless you bid so low as to fail to get it.

His offering consists of 300 head Improved Chester White swine and a large, invoice of Holstein and Jersey cattle and several hundred head thoroughbred poultry.

The swine offered are of various ages, and it is perhaps the largest sale of thoroughbred hogs ever made by one individual or firm. This is perhaps the largest herd in existence of thoroughbred hogs and its fair record is unexcelled, having won largely at the World's Columbian and later achieved the title of "The World's Champion herd" by winnings at the best State fairs in the United States. Many World's Columbian and State fair winners and their descendants are offered in this sale.

The Jersey and Holstein offerings are of first quality and the poultry of the best leading varieties.

Mr. Whinery has held three sales on this plan, which resulted satisfactorily to himself and customers, and he announces this, his fourth sale, in this issue.

Bidding opens October 21 and closes November 11, 1895. Send for catalogue giving full particulars. Mention this paper when writing.

The Farmer takes pleasure in recommending Robert White & Co., whose advertisement will be found in another column, as men of wide experience and excellent salesmen. Stock consigned to them will receive prompt attention with a guarantee of securing all the market will bear.

St. Louis is considered a good broomcorn market, because of favorable freight rates and because there are large local broomcorn manufactories, besides this market is sought by outside buyers. M. D. Heltzell Commission Co. will gladly furnish information, as will be noticed by his advertisement in this issue.

Calumny always makes the calumniator worse, but the calumniated never.—Colton.

MARKET REPORTS.

Kansas City Live Stock.

Kansas City, Oct. 14.—Cattle—Receipts since
Saturday, 18,960; calves, 717; shipped Saturday, 2,923 cattle, 104 calves. The market was
generally steady, though it was weak on some
westerns. The following are representative

DRESSED BEEF AN	D SHIPPING STEERS
No. Ave. Price. 23 Tex1,007 #8.175	No. Ave. Price.
TEXAS AND	INDIAN STEERS.
4 1,136 83.00 50 1,038 3.00 1 790 2.50 2 810 2.25	16 ····· 1,006 \$3.00 3 816 2.50
	DO STEETS.
601,489 \$4.50 441,214 8.25	901,405 84.25
	ADO COWS.
11,130 83.00 1960 2,75	65 895 82.75 11 853 2.25
COWS AN	D HEIFERS.
3 708 \$3.15 15 1,074 2.55 10 739 2.50 2 1,115 2.40 1 1,010 2.85 1 940 2.20 1 940 2.20 1 1,080 2.55 1 1,080 2.50	1 770 \$3.00 2 940 2.50 14 788 2.50 10 898 2.40 1 970 2.31 2 890 2.25 2 965 2.15 5 1,052 2.10 5 952 2.03
11,080 2.00	1 770 1.00
	AND FEEDERS.
21,155 \$3.65	1 20 1,060 \$3.525

24. 1,039 3.50 18. 661 3.40
1. 730 3.33 11. 794 3.23
1. 880 3.10 19. 1.134 2.85
Hogs—Receipts since Saturday, 3,628;
shipped Saturday, 829. The market was steady to strong. The following are representative sales:

tive sal	es:				
48397	84.0714	45270	84.00	76202	84.00
73203	3.95	60243	8.95	50170	3.95
14337	3.95	63247	3.9214	99175	3.921/
47211	3.90	61194	3.90	73210	3.90
87233	3.90	69256	3.90	62222	8.90
29204	3.90	200178	3.90	51244	3.90
41204	3.9)	50214	3.90	88226	3.90
45 259	3.8714	57249	3.8714	81209	3.871/2
53265	3.8714	65228	3.85	72181	3.85
68255	3.85	96191	3.85	84215	3.85
46191	3.85	26336	3.85	59202	3.85
25127	3.85	63293	8.85	81218	3.821
16151	3.80	8242	3.80	60 162	3.80
40244	3.75	102,175	3.75	17276	8.75

Sheep—Receipts since Saturday, 2 shipped Saturday, 2,578. The market

Horses—Receipts since Saturday,273: shipped Saturday, 139. There was very little done at the horse and mule market to-day. Prices were generally steady. A number of buyers are here, and with increasing receipts, a good strong market is expected. The trade in mules is picking up. Abe Kohn, of St. Louis, is on the market buying for the Spanish government, to be used in Cuba. He got two car loads and calls the market steady with last week. He is after 4 to 9-year-olds, 14 to 14½ hands high and in good flesh. in good flesh.

Chicago Live Stock.

CHICAGO, Oct. 14.—Cattle—Receipts, 25,000; market steady to 15c lower; fair to best beeves, \$3.40@5.50; stockers and feeders, \$2.20 @3.85; mixed cows and bulls, \$1.20@3.50; Texas,

(23.55; mixed cows and bulls, \$1.20@3.50; Texas, \$2.75@3.50; western, \$2.00@4.35.

Hogs—Receipts, 36,000; market averaged a shade higher, closing weak; light, \$3.65@4.25; rough packing, \$3.50@3.70; mixed and butchers, \$3.70@4.25; heavy packing and shipping, \$3.75@4.20; pigs, \$2.00@4.10.

Sheep—Receipts, 32,000; market 10c lower: native, \$1.25@3.50, western, \$1.75@3.25; Texas, \$1.40@2.70; lambs, \$3.00@4.50.

St. Louis Live Stock.

Sr. LOUIS, Oct. 14.—Cattle—Receipts, 6.070; market 5 to 100 lower; native steers, \$3.50@5.25; Texas steers, \$2.50@3.40.
Hogs—Receipts, 3.200; market steady to 50 higher; heavy, \$3.90@4.20; mixed \$3.50@\$4.10; light, \$3.80@4.15.

Sheep-Receipts, 2,000: market lower.

Chicago Grain and Provisions.

Oct. 14.	Opened	High'st	Low'st	Closing
Wh't-Oct	591/8	591/6	19%	591/8
Dec	6014	60%	59 % 63 %	611/8
Corn —Oct	28%	2914	28%	29
Dec	27%	2714	2714	27%
Oats -Oct	291/8	1754	29 1/8 17 84	1754
Dec	1736	17%	1736	18
May	2014	201/4	2014	20%
Pork-Oct Jan	8 50 9 521/4	8 50 9 60	8 50 9 521/4	8 50 9 60
May	9 85	9 875	9 8)	9 85
Lard-Oct	5 75	5 77%	5 75 .	5 77%
Jan May	5 80 5 95	5 9714	5 8) 5 95	5 8: 1/2
Ribs -Oct	5 10	5 25	5 10	5 25
Jan	4 821/4	4 85	4 821/4	4 85

Kansas City Grain.

KANSAS CITY, Oct 14.—Wheat was almost 1/20 lower to-day. A number of the usual buyers were not on the market at all, and the trade was very slow. The receipts were the largest of the year, and a good many samples were carried over to be sold to-morrow.

Receipts of wheat to-day, 250 cars a year ago, 99 cars.

Sale of car lots by sample on track, Kansas City: No. 2 hard, 4 cars 59c, 7 cars 58½c; No. 3 hard, 2 cars 57c, 3 cars 56½c, 3 cars 56c, 2 cars 55c, 2 cars 54c, 2 cars 52c, 1 car 50c; No. 4 hard 550, 2 cars 540, 2 cars 520, 1 car 500; NO. 4 Bard, 1 car 480, 7 cars 470, 2 cars 450, 1 car 430, 1 car 420, 1 car 40; rejected, 1 car 380, 1 car 30, 1 car 290; soft, NO. 2 red, 2 cars 630, 1 car 62% (40; NO. 3 red, 2 cars 620, 1 car 610, 1 car 610; NO. 4 red, 1 car 540, 1 car 520; rejected, 1 car 48%, 1 car 40c; no grade, nominally 25@35c; spring, No. 2, 3 cars 57c, 12 cars 50½c, 49 cars 56¼c. 3 cars 56c; No. 3, 7 cars 54½c, 14 cars 56; No. 3, 7 cars 54½c, 14 cars 54c; rejected, 1 car 46c; white spring, No. 2, 2 cars 58c; No. 3, 1 car, 52c, 2 cars 50c.

Corn sold at irregular prices. New corn was about %0 lower as a rule. A sale of 3),000 bushels No. 2 mixed, 10 days. shipment, at 23%c was reported. A good deal of corn was

Receipts of corn to-day, 54 cars: a year ago,

Sales by sample on track, Kansas City: No.

2 mixed, 2 cars 26c, 6 cars 24½c, 2 cars 24c; No. 3 mixed corn, 3 cars 24½c, 4 cars 24c, 5 cars 23½c; No. 4 mixed, nominally 22@23c; no grade, nominally 20@22c; No. 2 white, 5 cars 25c, 4 cars, 24½c No. 3 white, 3 cars 24½c, 4 cars 24c, 3 cars 23½.

Oats were generally held at Saturday's prices, but the trade was very slow and concessions had to be made on white oats to sell them.

Sales by sample on track, Kansas City: No. Sales by sample on track, Ransas City: No. 3, 2 cars 1446, 3 cars 140: No. 4, 3 cars 130: no grade, nominally 11@12c: No. 2 white, 4 cars 174c; No. 3 white, 1 car 150, 2 cars 164c, 5 cars 17c.

Hay — Receipts. 87 cars; market firm; timothy, choice, \$11.00; No. 1, \$10.00; No. 2, \$8.00 @9.00; fancy prairie, \$6.50; choice, \$5.50@6.00; No. 1, \$4.50 @5.00; No. 2, \$4.00 @4.50. packing hay, \$3.00@3.50.

St. Louis Grain.

St. Louis, Oct. 14.—Receipts, wheat, 91,000 bu; last year, 20,200 bu; corn, 9,800 bu; last year, 19,500 bu; oats, 160,600 bu; last year, 44,000 bu. Closing prices: Wheat—Cash, 62%c; October, 62%662%c; December, 62%663%c. Corn—Cash, 26%c bid; December, 24%c; May, 26%6. Oats—Cash, 170; December, 18c; May, 20%620%c.

Kansas City Produce.

KANSAS CITY, Oct. 14.—Butter—Extra fancy separator, 21c; fair, 17@18c; dairy fancy, 14@15c; store packed, fresh, 10@12c; off grades, 7@8c.

Eggs-Strictly fresh candled stock, 141/40 per Poultry - Hens, 6c: springs, 61/2070; roosters,

Poultry-Hens, 6c: springs, 64/27c; roosters, 15c. Turkeys, 7c; springs over 8 lbs., 84/c; under 8 lbs. not wanted. Ducks, 7 8c. Geese, 34/204 springs, 7c. Pigeons, \$1.00 per doz. Fruits-Apples-Cooking, 15/25c per bu; choice eating, 30/40c fancy, \$1.50/25c per bu; choice esting, 30/40c fancy, \$1.50/21.75 per bbl.; choice, \$1.25/20.1.50; common to good, 50/27c per bbl.: home grown stock sells a little higher in a small way. Grapes-Pennsylvania, New York and Ohio Concords, fancy, 20/2/25c; poor stock, 10/218c: wild, 10/2/15c per peck. Peaches-Home grown, 50/2/60 per peck; Michligan, \$2.01 per hu.; 40c per 1-5 bu. basket. Pears-Kelfer, 10c per peck. Cranberries-\$7.00/27.50 per bbl. 67.50 per bbl.

Chicago Horse Market.

The following are the quotations of last week's auction sales at Chicago: Streeters. 50@ 70 Coachers and fast road horses. 90@275 900 to 1100 lb. chunks. 25@ 55 Ordinary drivers \$60 and upward.

These prices are for sound horses five to eight years old, well broken and in good flesh.

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Sold to feeders		11,496 468,616 2,530,896	45,730 503,116	28,903	- 25

CHARGES: YARDAGE, Cattle, 25 cents per head; Hogs, 8 cents per head; Sheep, 5 cents per head. HAY, \$1 per 100 lbs.; Bran, \$1 per 100 lbs.; Corn, \$1 per bushel.

NO YARDAGE CHARGED UNLESS THE STOCK IS SOLD OR WEIGHED. C. F. MORSE, E. E. RICHARDSON, H. P. CHILD, General Manager. Secretary and Treasurer. Assistant Gen. Manager.

The Poultry Hard

POINTS OF POULTRY.

The Picture Shows Where the Different Parts Are Located.

Expert breeders, of course, know the "points" in poultry, but among everyday farmers and average people who raise poultry a comparatively small number are well informed in this respect. The illustration shows a rooster with the different parts numbered,



and appended below the name of each opposite its number: 1, comb; 2, face; 8, wattle; 4, deaf-ears, or earlobe; 5, hackle; 6, breast; 7, back; 8, saddle; 9, saddle hackles or feathers; 10, sickles; 11, tail coverts; 12, true tail feathers; 13, wing-bow; 14, wing coverts forming the "bar;" 15, secondaries, lower end, forming the wing or lower butts; 16, primaries, or flight feathers, not seen when the wing is clipped up; 17, point of breast bone; 18, thighs; 19, hocks; 20, legs or shanks; 21, spur; 22, toes or claws. -N. E. Homestead.

Keep Only One Breed.

The farmer who would indiscriminately cross his stock, breeding to first one breed and then another, would not be called wise, and this applies to poultry as well as other stock. Select a breed and stick to it, for there is not so much in the breed as in the care. If the stock is mongrels to begin with breed to pure bred males all the time, and constant improvement will be made. If it is pure bred, do not breed to some other breed, for whatever benefit must be derived from the first cross, will be lost in the next, for the second generation will be only mongrels, and will lose the valuable points of their ancestors very often. Constant improvement along all lines should be the rule.—Rural World.

About Light and Dark Yolks.

The dark colored yolks are preferred by ladies who use eggs for cake and pastry, and the question is frequently asked why the yolks of eggs are of a pale color at times. The color does not indicate quality, but depends on the food. If yellow corn or clover hay is given hens, the yolks will be deeper in color than when wheat and bran are the principal grain foods. In summer, when hens can secure a greater variety, the color of the yolks is deeper than when the food is restricted to one or two kinds only. - Farm and Fireside.

Hens as Weed Destroyers.

If a hen and chicks are placed in a yard or confined on a small plot, every blade of grass, as well as every weed, will be destroyed, and in a few days the plot will be as clean as if burned over. When hens are confined in yards, the yards are clean and bare of vegetation. When the hens are on a range, they also destroy thousands of young weeds, which is not so noticeable, but which is nevertheless the case.

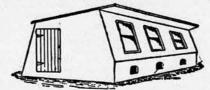
Vigor and Health in the Flock.

Health in the flock is largely due to selection. One of the best modes of selection is to observe the thickness of the bones of the leg. Stout bones indicate strength, and chicks that have strong and thick thighs will nearly always make vigorous and healthy fowls. Hardiness of the flock is more essential than anything else, as it is disease that usually destroys the expectations of the poultryman and causes him to lose when he should be making a profit.—Rural World.

WINTER HEN HOUSE.

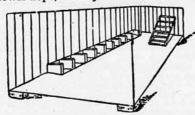
Particularly Suited to the Needs of the Farmer's Wife.

The simplicity of the house illustrated commends it to anyone keeping a few hens near his dwelling. It is a plain yet neatly-constructed building,



that will meet every requirement of a more expensive structure—just suited to the needs of the farmer's wife. It can be built at a cost of \$20 to \$30,

The size depends upon the number of fowls kept; for say 30 hens, make it 30



by 20 by 6 feet. This will be found ample, and if properly lined with tar paper inside it will be snug and warm and be just the place for your winter hens. In the second figure is shown the interior, with nests and roosts.-John W. Caughey, in Country Gentle-

Shipment of Eggs in Bulk.

A consular report tells of large quantities of shelled eggs being sent to England from Russia and Italy for the use of pastry cooks, bakers, hotels and restaurants. The eggs are emptied from their shells into tin cans holding one thousand or more, and after being hermetically sealed are packed with straw into wooden cases; the taps, through which the contents are drawn, being added by those using them. Great care is necessary in selecting eggs, as a single bad one would spoil the whole lot. Lower price and saving of time, and greater ease and less expense and loss in handling are named as the advantages of this system. Thus far the Russian product has been uniformly good, whereas the Italian shipments have so frequently been spoiled that analysis of the Russian supply has been ordered to determine if preservatives are used.

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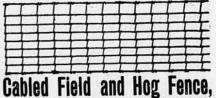


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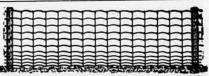






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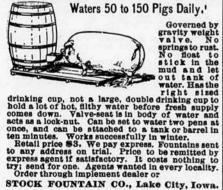


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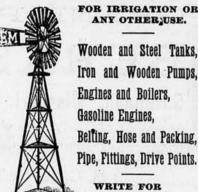
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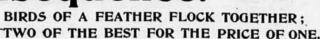
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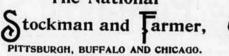
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(Continued from page 1.)

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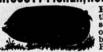
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Breeder of pure-bred POLAND-CHINAS of best families. Herd headed by Roy U. S. 24195 A., assisted by Western Wilkes 12847 S. Spring pigs at reasonable prices A few choice fall gilts for sale cheap. Also breeds Plymouth Rocks of best strains. When writing mention KANSAS FARMER.



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All ages for sale. Herd headed by Dandy Jim Jr. and Boyalty Medium, a son of Free Trade.

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B. R. ADAMSON, Prop., Ft. Scott, Kas. 25 highly-bred brood sows of best strains, headed by Black Dandy 8809 S., Black Stop 10550 S. and Joker Wilkes 12682 S. About 100 selected individuals sold this season. 25 youngsters coming on now for choice. Write or come and visit my herd.



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A grand lot of sows bred to Monroe's Model, Excel, Mowilkes Jr. and Storm Cloud 2d. Also all other classes and ages of stock for sale. I guarantee safe arrival and stock as represented or money refunded. Breeding stock recorded in Ohio P. C. R.

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46 brood sows in herd, headed by Black U. S. Nemo
Vol. 9), Model Wilkes (Vol. 9), Sunset Chip (Vol. 9)
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Breeders and shippers of the choicest strains of Poland-China hogs, Hereford cattle and Mammoth Bronze turkeys. Top Black U. S. and Wilkes pigs for sale. None better. Mention KANSAS FARMER.

CLOVER HILL HERD Registered Poland-China Swine

Eighty head, headed by Royal Perfection 13159 S., a son of King Perfection 11315 S., that won sweep-stakes St. Louis fair, 1894. Twenty-one April pigs, thirteen May farrow and twenty-five later, all by Royal Perfection. Write or come. T. E. Martin & Bro., Fort Scott, Kansas.



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World's Fair—more than any single breeder west of Ohio.

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20 brood sows, headed by Tecumseh Free Trade
10788 S., assisted by a son of Benton's Last 8827 S.
Some of best females bred to Butler's Darkness,
Black U. S. Nemo (Vol. 9) and Victor M. Jr. (Vol. 9)
Annual Clearance Sale, September 18, 1895.

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IRWIN & DUNCAN, Wichita, - Kansas Sedgwick Co.

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Breed and have for sale Bates and Batestopped Short-horns
—Waterloo, Kirklevand have for sale the best thoroughbred PolandOhinas that can be obtained. Write or come and see.

J. R. KILLOUGH & SONS, Richmond, Franklin Co., Kansas, POLAND-CHINA SWINE.

Headed by Upright Wilkes 13246 and assisted by J. H. Sanders Jr. 13739. Our brood sows are all richly bred and high-class individuals. A fine lot of fall pigs, both sexes, ready to go at reasonable prices.

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Poland-China Hogs, Holstein Cattle

and B. P. Rock chickens of the choicest strains. Butler's Darkness No. 6846 S and Ideal U. S. Nemo at head of swine herd. Only choice stock shipped on order. Sows bred and a few extra good young boars for sale. Write your wants. Satisfaction guar-anteed. Sixth Annual Clearance Sale, Sept. 17, 1995.

Evergreen Herd Poland-Chinas. Winterscheidt Bros., Propr's,
Horton, Kas. Headquarters for
Admiral Chip pigs. The great \$250
boar, Admiral Chip 7919, heads the
herd, assisted by Kansas Chief 12676, Winterscheidt
Victor 12394, Geo. Wilkes Jr. 11833. Also pigs from
Orient's Success 27289 and Banner Chief 12714. Sows
of following strains: Tecumseh, None Such, Wilkes,
Admiral Chip, etc. Prices reasonable. Write or come.

I Did Want \$1,000

BUT I HAVE \$1.00 NOW, MYSELF and lack \$999. In order to get this I am offering POLAND-CHINA pigs sired by Graceful F. Sanders 18965 S. sire and dam prise-winners at World's Fair, and Early Sisson 11993, also U. S. Wise 18138. Write or come.

A. W. Themanson, Wathena, Kas.

SUNNY SLOPE FARM, EMPORIA, 200 head of Poland-China hogs, headed by Long-fellow 29985 O. (who has the best Columbian record

rellow 29985 O. (who has the best Columbian record west of the Mississippl), J.H.Banders Jr., Hadley Jr. 27805, Sir Charles Corwin. We also combine the blood of Black U.S., Ideal U.S. and Wilkes. 100 head of brood sows. Also 100 head of brood sows. Also 100 head of Bentry breeding and Royal Peerless the Great. We have 25 gits bred by him to General the United States. Why not come to the fountain head for brood sows? 200 head of fashionably bred Herefords. H. L. LEIBFRIED, Manager.

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130 head, all ages, headed by Onward 8981 S., sired by George Wilkes. He is assisted by Tecum-seh Wilkes, sired by General Wilkes 21927. The females belong to the best strains. Come or write.

1,309 POLAND-CHINAS

Shipped by express to eighteen States and Canada. Original Wilkes, Corwin, Tecumseh and World's Fair blood. W.S. HANNA, Ottawa, Kansas.

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HIGHLAND KENNELS, TOPEKA, KAS.—Great Danes and Fox Terriers. The first prize and sweepstakes winner, Great Dane King William, in stud. Dogs boarded and treated for all diseases also, remedies by mail. Correspondence solicited.

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Bales made everywhere. Refer to the best breeders in the West, for whom I sell. Satisfaction guaranteed. Terms reasonable. Write before claiming
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THE STRAY LIST.

FOR WEEK ENDING OOTOBER 2, 1895.

Labette county-J. F. Thompson, clerk. MABE—Taken up by John Byrum, in Howard tp., August 15, 1895, one black mare, fourteen hands high, star in forehead; valued at \$10. HORSE—By same, one iron-gray horse, blaze face; valued at \$7.

Bourbon county-G. H. Requa, clerk. MARE—Taken up by C. E. Shaffer, in Freedom tp., one black mare, 4 years old, about fifteen and one-half hands high, star in forehead, and what seems to be a wire cut on right fore leg below knee; valued at \$25.

FOR WEEK ENDING OCTOBER 9, 1895. Coffey county-T. N. Bell, clerk.

HEIFER—Taken up by U. S. Grant, in Pleasant tp., September 23, 1895, one light red yearling heifer, small white spots on belly, crop off left ear, de-horned; no other marks or brands.

FOR WEEK ENDING OCTOBER 16, 1895.

Norton county-D. W. Grant, clerk. MARE—Taken up by Joseph Goodwin, in Noble tp. (P. O. Clayton), September 19, 1895, one iron-gray mare, medium size, branded O with line above and below, no other marks or brands perceptible; valued at \$15.

Cherokee county-P. M. Humphrey, clerk. MARE—Taken up by ——, in Garden tp. (P. O. Varck), one bay mare; valued at \$15.

Harvey county-T. P. Murphy, clerk. MARE—Taken up by Henry F. Ciore, nw. ½ sec. 31, tp. 24, r. 2 w (P. O. Sedgwick), one gray mare, 8 years old, about fifteen hands high, collar marks on shoulders, small rope around neck fastened with snap and ring, smooth shod in front.

J. G. Peppard

1400-2 Union Avenue, KANSAS CITY, MO.

MILLET CLOVERS TIMOTHY CRASS SEEDS



Bayfield Herd Pedigreed Poland-Chinas

Ninety spring pigs, twenty-four brood sows. Boars in service, Souvenir 9421 S., Magnet 13837 S. and Duke of Bayfield 14327 S. Write for particulars, or better, come and make selections. J. S. MACHIR, Linwood, Leavenworth Co., Kas.

Catalogues of Cherry Orchard Poland-Chinas Now ready for distribution. One hundred tops out of my spring crop of 140 pigs, will be sold at PUBLIC SALE, SEPTEMBER 11, 1895. They were sired by my herd boars, Wren's Medium 237 and Corwin's White Face 9724. The pigs are in fine health and making good growth on alfalfa and gift feed of slop. FOR PRIVATE SALE, fall boars and sows bred. Correspondence and inspec-W. H. WREN, Marion, Marion Co., Kansas.

GRAND PUBLIC SALE OF POLAND-CHINA HOGS!

AT FATE GROUNDS

OTTAWA, FRANKLIN CO., KAS., SATURDAY, OCTOBER 26, 1895.-1 P. M. 50 HEAD—Boars, Gilts and Brood Sows. All well up in Black U. S., Lord Corwin 4th, One Price, J. H. Sanders, King Butler and the noted Tecumsehs—all the most fashionable breeding of the day.

Terms:—Six months time on approved notes at 8 per cent. interest, or 3 per cent. off for cash. Send for catalogue o Col. S. A. Sawyer, Auc., Manhattan. DIETRICH & GENTRY, Richmond, Kas.

KENNEDY'S SALE OF

Wildwood Farm, Wednesday, October 30, 1895.

On the above date I will sell at public auction, 100 head of pure-bred Poland-China hogs, consisting aged sows, sows with litters, yearling glits, bred and unbred, yearling boars, and my entire crop of 1895 gs. WILKES, FREE TRADE, BLACK U.S. and other best blood. Free transportation from depot and free entertainment. Sale begins at 10 a.m. Dinner at 12. Write for catalogue and particulars.

COL. J. W. SPARKS, Auct., L. N. KENNEDY, Nevada, Mo. PUBLIC SALE

BERKSHIRES

Savannah, Missouri, Tuesday, October 22, 1895.

At my farm, one mile east and one-sell three yearlings boars and lifty sons and daughters of King Lee 27500 est sensational show boars at World's pigs cannot afford to miss the sale. The to Col. Sparks will be placed at the low-

half mile south of Savannah, Mo., I will choice spring pigs. All are grand and Black Knight 3003. the two great-Fair. Those wishing choice, well-bred sale will commence at 1 p m. Bids sent est figure. Send for catalogue.

E. C. L. LARCH, M. D., Savannah, Mo. COL. J. W. SPARKS, Auctioneer, Marshall, Mo.

OCTOBER 29.

OCTOBER 29

CLOSING-OUT SALE

ABERDEEN-ANGUS

CATTLE, 55 head. 40 cows and helfers. 15 young bulls. Most fashionably bred. Good individuals. The bulls and helfers are the get of that grand old bull, Baron Maurico 5442, sire of many prize-winners. Sale absolute, without reserve, at farm adjoining town of Connors. Kas., thirteen miles northwest of Kansas City, on Missouri Pacific railway; all trains stop. These are the farmer's, butcher's and exporter's cattle, and this sale a rare opportunity to lay the foundation of a herd of the best cattle in the world. Sale at 1 o'clock. Lunch at 12.

Terms:—Cash or bankable notes, nine months, 7 per cent. Send for catalogue.

COL. JAS. W. SPARKS, Auctioneer, Marshall, Mo.

KIRKPATRICK & SON, CONNORS, KAS.

SALE BY AUCTION OF Pure-bred Short-horn Cattle

ON OCTOBER 30, 1895.

The entire Westfield herd of pure-bred Short-horn cattle will be offered for sale without reserve. This herd contains some of the most fashionably bred cattle in America, mostly Cruickshank-topped The sale will take place at

Westfield Stock Farm, four miles southwest of Denver, Col., on the Morrison Road. Free transportation to the farm can be obtained by intending purchasers on application to the pro-prietor of the Club Stables, 1437 Curtis St., Denver. Lunch will be served at 12:15 and the sale will take place at 1 p. m. sharp. Catalogues can be obtained on application to

A. STORRS, P. O. Box 625, Denver, Col. COL. S. A. SAWYER, Auctioneer.

Several teams of heavy draft horses will also be offered for sale.

TEXAS Cottonseed Meal and Oil Co.

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We are prepared at all times to furnish meal in any quantity and tell you how it is fed. Correspond with us, or, if in the city, call in and see us. TEXAS COTTONSEED MEAL & OIL CO., W. G. PETERS, President. When you write mention Kansas Farmer.

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200 Shropshire breeding ewes and choice rams for sale, singly or in car lots. Address

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Send us your address and we will show you how to make \$3 a day; absolutely sure; we furn! I the work and teach you free; send us your address and we will explain the business fully; remember we guarantee a clear profit of \$3 for every day's work; absolutely sure; write at once.

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