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Read Our Gift Distribution of \$2000.00 on Page 16

TEXAS FARMERS' CONGRESS.

Representative Men of the State Engaged in Agricultural Pursuits Meet in Annual Session at the A. and M. College—Full Report of the Proceedings—Some Creditable Exhibits.

As time passes nothing has become more apparent than that the great Texas Farmers' Congress is keeping pace with the remarkable development of agriculture in the state. Every year witnesses a larger gathering of earnest, practical men, assembled at College Station to discuss methods by which agriculture and the affiliated industries may be placed on a more firm and substantial basis—how tillage of the soil may be made to yield the most profitable results and how the husbandman may be uplifted and enlightened. There is not a more laudable work than this in the entire range of education. It is a field of study fraught with unlimited possibilities for intelligent research and one which cannot help but result in untold benefit to the entire social fabric of the commonwealth. So much in praise of what the congress is doing.

Each season finds a larger number of organizations enrolled under the banner of progressive agriculture and the executive committee now has on file applications from several other organizations, including the Texas division of the American Society of Equity, which will be passed upon after the expiration of a month, in accordance with a provision of the by-laws.

In point of attendance the congress, which convened last Tuesday and remained in session until Friday, surpassed that of last year by about 300, the total number present approximating nearly 1000. The members came from all over the state, with the exception of that portion embraced in the "plains country."

As usual the fruit and truck growing interests in the eastern counties were strongly represented, while the cotton growers, exponents of diversification, the rice industry and owners of "black waxey" land, who assert without fear of contradiction, that their soil will grow anything, rubbed elbows in the mess hall with dairymen, swine breeders, bee-keepers, poultrymen and pet stock raisers. It was truly a mixed meeting in so far as the favorite occupations of those present were concerned, yet one which illustrated more strongly than words can convey the varied resources of a vast domain extending from the Red river to the Rio Grande.

A strong sentiment in favor of more general sessions of the congress has developed and it is not unlikely that next season such an innovation will be introduced. Many assert that there has been too strong a tendency among members of the varied interests to "flock by themselves" and that much that is said which would be beneficial to the whole is only heard by a small minority. For instance, there are problems of shipping and marketing discussed in the sectional meetings which might be profitably listened to by all. It has become strongly apparent, too, that short and pointed talks are best appreciated, a fact which should tend to discourage the almost unconscious habit of some excellent speakers in delivering lengthy addresses.

When the institute convened Tuesday afternoon, President J. H. Connell delivered an address in which he said the farmers did not attend the meetings simply for pleasure or their health, but to learn something new and beneficial which would aid them in taking advanced steps and keeping pace with the times. In the evening President David Franklin Houston of the A. and M. College delivered a cordial address of welcome to the visitors, to which Mr. J. W. Howell, president of the Parker County Institute of Weatherford, made a fitting reply.

In reviewing the work of the Farmers' Institute in the state Prof. Frederick W. Mally of Garrison, formerly a member of the college faculty, told of the horticultural development of Texas. He also dwelt upon the great benefits the Agricultural and Mechanical College, with its experiment stations, had conferred upon Texas agriculture, but

said that without the concurrent aid given by the local organizations known as farmers' institutes, much of the efforts of the college would be lost.

THE EVENING SESSION.

When the congress reconvened on Wednesday evening, the committee on credentials reported through Mr. H. E. Singleton of McKinney, an attendance of members from twenty-three county institutes and agricultural associations. It was moved and carried that all organizations affiliated with the congress should hereafter have a regular programme prepared in advance in order to obtain a hearing before the congress. After a flash light photograph of the multitude assembled in the chapel had been taken, an address on "The Status of Education in Texas" was delivered by Dr. W. S. Sutton, who occupies the chair of pedagogy at the State University. He denominated his subject as one which underlined civilization and, by introducing a series of statistics, emphasized the deficiency of Texas in the matter of public education, the per capita tax imposed towards support of the public school system, the length of term and number of children enrolled.

ATTWATER ON NATURAL HISTORY.

Without a talk from Prof. H. P. Attwater of Houston, the affable industrial agent of the Southern Pacific railway, no Farmers' Congress in Texas would be complete, a fact which the management evidently recognized when they put him down on the list for a talk early in the proceedings.

On this occasion Prof. Attwater talked "Natural History," but found time to put in a few words for his friends, the birds, whose preservation, he said, was most important of all in connection with agricultural pursuits. He expressed the opinion that most facts upon which nature study is based should be taught in the public schools and declared that the study of entomology in connection with agriculture and horticulture was highly essential. Continuing, he declared that but for the insect-eating birds much valuable vegetation would become extinct. He also read an article on the despised earth-worms, showing how their action upon the soil aided in the nourishment of plant life. A letter was read from William Dutcher, president of the National Audubon Society in which he stated that he had watched with interest the progress of legislation in Texas having for its object the protection of the birds and which, he said, would influence the passage of similar laws in other states. Resuming, Professor Attwater declared that black birds should be protected because they destroyed cattle ticks, and perhaps, thereby prevented the spread of splenic fever. None of the gentlemen present challenged this statement and Professor Attwater was vigorously applauded when he sat down.

There was a motion from the floor that the newspapers of the state be requested to print the lectures of Dr. Sutton and Professor Attwater and the meeting went on record in favor of a wider publicity for these scholarly talks. Strong sentiments in favor of the rigid enforcement of the new bird law were expressed.

The general congress met again Thursday morning at 11 o'clock, when Dr. S. A. Knapp of Lake Charles, La., special agent of the department of agriculture for the southwest, who has been more instrumental in developing the rice industry of the Gulf coast than any other one man, delivered an address in which he said that the hope of the nation rested on the building up of agricultural conditions. He contrasted the ideal farm home in America with one of East India, showing the result of intelligent cultivation. In conclusion, he urged the necessity for more intensive farming to preserve American prestige and a readjustment

of the wage scale between the worker on the farm and in the city for the benefit of the former.

PLEA FOR THE FAIR.

Frederick W. Taylor, superintendent of the agricultural and horticultural department of the Louisiana Purchase Exposition stated, in a speech, that it was of the utmost importance that whatever Texas is to do in the way of providing for an exhibit should be accomplished without delay. He also emphasized the point that exhibits sent from this state would be placed in the buildings dedicated to the industry which they represented and not exhibited merely in the state building, as seemed to be the impression.

It was announced that the premiums offered for corn exhibits by the congress would be awarded at the San Antonio fair next fall, owing to the fact that the corn season was so backward this season. The management of the State Fair at Dallas had, it was announced, added \$100 to the \$250 previously provided for prizes.

J. S. Kerr of Sherman moved a vote of thanks to Mr. Taylor and Texas World's Fair Commissioner Wortham, which was referred to the executive committee for favorable action.

When the general congress reconvened Thursday evening the following resolutions, framed by the Cotton Growers' association, were submitted by the executive committee and adopted as an expression of the general congress:

"We recommend: 1. That the thanks of this association be extended to our officers for the efficient manner in which they have discharged their duties.

2. That our thanks be also extended to the Hon. James Wilson, secretary of agriculture; Prof. B. T. Galloway, Prof. Miller Whitney, H. J. Webber, J. J. Spillman, A. J. Pictus, Dr. S. A. Knapp and John Hyde, statistician, for the interest that they are taking in the agriculture of the South, and especially that of Texas.

3. That the thanks of this association be extended to the general management of the various Texas railways that have contributed to the success of this meeting.

4. Whereas, The general government appropriated \$500,000 for the eradication of the foot and mouth disease, which threatened the stock interests of the Eastern states; therefore, we recommend that the senators and representatives of Texas be urged to use their influence to secure the appropriation of a like amount to be used in the study and eradication of the boll weevil. In view of the fact that the boll weevil has already covered almost the entire cotton area of Texas, and will, if not checked, extend over the whole South, we recommend to the various boards of trade and agricultural associations of the South, which have at heart the welfare of the country, that they urge upon their senators and representatives the importance of continuing the work, which is now being so efficiently carried on by the division of entomology.

5. We recommend that the Texas senators and representatives be urged to use their influence in securing an appropriation of \$10,000, to be used in Texas in experimenting with forage plants.

6. Whereas, Improved livestock is greatly needed at the Agricultural and Mechanical college; therefore, we recommend that the legislature be requested to appropriate, and the governor be urged to approve, the expenditure of at least \$15,000, to be used by the college in the purchase of improved breeds of draft horses, cattle, sheep and swine, and an additional \$10,000, to be used in the erection of suitable buildings for the care and protection of the same.

7. We recommend that the thanks of this association be extended to the board of directors of the Agricultural and Mechanical college, President Houston, Steward B. Ables and other officers of the institution for their efforts in caring for the comfort and pleasure of the members of our association.

8. We learn with regret that Secretary B. C. Pittuck is to sever his connection with the college, and we recommend that the thanks of this association be extended to him for his services during the past few years.

J. K. P. HANNA,
ED McCULLOCH,
R. D. HUDSON,
JOHN GURLEY,
OSWALD WILSON.

The committee on awards for the county exhibits was read, conferring upon Brazos county the "blue ribbon" for the most creditable display, though Williamson county secured honorable mention. The committee on pure food legislation recommended that agitation heretofore begun against frauds in food products be kept up.

Dr. David Franklin Houston, chairman of the committee on textile school, reviewed what had been done in the way of agitating for an appropriation towards such an institution as a department of the college, and congratulated the congress that an appropriation of \$50,000, with additional sum of \$7000 to pay the salary of a director for two years had been secured. It was, he said, the intention to expend \$25,000 in the construction of a modern building for the plant and \$25,000 for equipment, machinery and power. This latter would represent what would, under other conditions, have necessitated an outlay of \$75,000, as the college could obtain the necessary machinery at about one-third cost. "When this department is in operation," concluded Dr. Houston, "it will turn out students fully equipped for the superintendency of a textile factory, as is now done at four other schools in the South."

After Dr. Houston had finished speaking, the election of officers for the congress was very expeditiously proceeded with. Vice-President Oswald Wilson, in his capacity as chairman of the committee on nominations, read off a list which the convention ratified without dissent. Prof. J. H. Connell was re-elected president; Col. E. S. Peters of Calvert, vice-president for the cotton growers; Oswald Wilson of Houston, vice-president for the Rice association; S. A. McHenry of Beeville, vice-president for the South Texas Fruit and Truck Growers' association; W. A. Yates of Brenham, vice-president for the State Horticultural society; John Tillotson of Sealy vice-president for the Dairyman's association, and W. O. Victor of Taylor vice-president for the Beekeepers' association. Prof. W. D. Gibbs of College Station was elected secretary and treasurer of the congress, to succeed Secretary B. C. Pittuck, who leaves to accept a position in the Louisiana Agricultural college at Baton Rouge. The selection of Prof. Gibbs is a very popular one, and was ratified by hearty applause, which the secretary-elect acknowledged with a brief speech in which he pledged his best efforts to the carrying on of the work.

"The Value of Macaroni Wheat as a Texas Crop" was the subject of a stereopticon lecture by Prof. M. A. Carlton, cerealist of the United States Department of Agriculture, who exhibited a number of interesting illustrations of the growing plant and specimens of bread made from macaroni and the varieties common in this country. "As a distinct agricultural product," he said, "macaroni is now thoroughly established in the North, and we expect a yield of from 50,000 to 60,000 bushels in Texas this fall. I predict that in a few years hence there will be from 10,000,000 to 15,000,000 bushels grown in this state annually, and that the unproductive belt will be greatly lessened."

CO-OPERATION IS URGED.

S. A. Dixon of the Southern Pacific system of railroads then addressed the audience on "Marketing Fruit and Vegetables," and urged the farmers to co-operate and stand for better prices for produce. Mr. Dixon stated that by uniting, good prices were secured, but by selling in opposition to one another, the farmers were robbing them-

LOSSES IN MEXICO.

The unseasonable frosts near Lake Chalco, Valley of Mexico, have caused heavy losses of corn. Crops to the value of \$100,000,000 are said to have been destroyed by frosts which, coming at this season, are quite unprecedented.

FIGHTING THE MANGE.

The Bureau of Animal Industry has inaugurated an aggressive campaign looking toward the eradication of scabies, or mange, among Western cattle. A few days ago Col. Albert Dean, livestock agent in charge of the work at Kansas City, received a proclamation signed by Secretary Wilson, directed to managers and agents of railroads and transportation companies of the United States, to stockmen and others interested, regulating the shipment or moving of scabby cattle from one state or territory to another, the regulations being similar to those concerning the movement of Southern cattle.

The order is applicable to all the country lying west of the Mississippi and the eastern boundary of Minnesota.

WILLIAMS-FLYNN WEDDING.

An event of interest in educational circles of the Southwest was the wedding last week of Miss Ida Flynn of Rock Rest, Tenn., and Mr. J. Tom Williams of San Antonio, Tex., president of the West Texas Military academy. The ceremony took place at the fine old Craighead mountain home in Robertson county, and was performed by Rev. Mercer Johnson, from Texas. The bride was exquisitely gowned in white embroidered chiffon, hand finished, and wore a veil of tulle caught up with a coronet of orange blossoms. Mrs. Thomas D. Craighead gave the bride away and little Miss Jennie Bunton acted as flower girl. An unusual number of costly gifts testified to the esteem of relatives and friends. Mr. and Mrs. Williams are now enjoying their honeymoon, after which they will be "at home" in the Alamo City.

THE WATER CURE.

The advantages of plenty of water about the farm home are inestimable. Not only should the water be plentiful, but it should be easy of access, and so convenient that both man and beast will avoid becoming thirsty. The sensation of thirst is nature's way of giving notice that the machinery of the system is going wrong, and is the same principle that causes a journal box on artificial machinery to squeak or run hot when there is imperfect or insufficient lubrication. The good engineer never waits until this condition arises before applying the lubricant, and it cannot be otherwise than deleterious to good health of the animal machine if any of its wants are neglected until the warning signal is sounded.

Every farmer appreciates the necessity for having plenty of water, but too few of them realize that equipment for serving and distributing the water is almost of equal importance as the supply itself. It is, of course, worth a great deal to have a bountiful supply at the bottom of a well varying in depth from twenty to three hundred feet, but it enhances the value of the water more than 100 per cent if means are provided for raising the level of this water to a point fifteen or twenty feet above ground, so that it can be conveyed by gravity to all parts of the premises without human effort.

A great many people spend considerable sums of money each year in visiting watering places and mineral wells, entirely heedless of the fact that the

RELIEF AT HAND.

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- For scores of rheumatic sufferers;
- For hundreds of bad backs.
- For urinary disorders—diabetes.
- Doan's Kidney Pills relieve and cure.
- Read the proof of it.

Mr. W. E. Giffey of 1917 East Nineteenth St., harnessmaker, employed with W. F. Weber & Sons, Kansas City, Mo., says: "It is about three years since I first noticed kidney trouble and soreness across the loins. At first I only had attacks, but later on it became a regular thing, and any movement caused sharp twinges across the small of my back. I tried a number of different remedies, but they failed to give me permanent relief. One day I dropped into W. P. Huccke's drug store, corner of Eleventh and Walnut streets, and got a box of Doan's Kidney Pills. Their use in a few days banished the backache. I recommend others suffering from their kidneys to give Doan's Kidney Pills a fair trial.

For sale by all dealers. Price 50 cents. Foster-Milburn Co., Buffalo, N. Y., sole agents for the United States.

Remember the name, Doan's and take no other.

benefits derived are not so much on account of the quality of water as the quantity used. If their homes were equipped with a waterworks system, there would, in nine cases out of ten, never be any occasion for going abroad to seek health.

Readers who are interested in such matters can get detailed information and estimates by promptly applying to Texas Challenge Health Promoting Company, 205 Em street, Dallas, Tex.

GROWTH OF PACKING INDUSTRY.

While meat packing is gradually becoming more important as an industry of the Southwest, the preserving of fish for market is as rapidly gaining in importance in the Northwest. A dispatch from Tacoma, Wash., says that the Alaska Packers' association has just completed, at Anacortes, the most perfect salmon cannery in the world. It was constructed on the site of the cannery purchased about eighteen months ago from the Anacortes Packing company. The original cannery did not come up to the requirements of the association, although it had packed more than 100,000 cases in one season.

The buildings of the present plant have a floor space amounting to many acres, and are equipped with the latest type of machinery. The plant consists of twelve buildings, the main cannery being 50x208 feet. The machinery is operated by a battery of steam boilers of 400 horse power.

The company owns several ingenious patents, the latest improvement being a fish-cleaning machine which does the work of twelve Chinese. This machine cuts off the head, slices the fish open and thoroughly cleans it. More than 5,000,000 cans are on hand in which to pack the season's run. Six hundred people will be employed, of which about one-half are whites, the rest being Chinese, Japanese and Indians.

DIPPING FOR TICKS.

An important experiment having for its object the eradication of ticks by the dipping process is to be made at Fort Worth in the latter part of this week and results are awaited with interest by many who believe that the test will solve the fever problem. For several weeks past the National Chemical Dip company of Fort Worth has been negotiating with the United States government at Washington in an effort to have the federal authorities give the dip a practical test, and at last the government has consented and the experiments are to be made in the Panther city within the next few days. The result is looked forward to with great interest by stockmen below the quarantine line.

The government has instructed Dr. Klein, federal inspector at the Fort Worth stock yards, to conduct the tests, and the dipping will be under his supervision exclusively. The dip company has given the inspector full sway in the selection of the stock to be experimented upon. He will, therefore, dip one head of each class of cattle, so that the test will cover all cattle kind. Some six or eight head will be dipped in the vats, just over the Trinity river in the bottoms at the foot of the street car bridge, where all arrangements have already been made for the experiments. After the dipping has taken place forty days will be allowed to elapse in order to determine the effect. The dipped cattle will be placed in a disinfected pen along with an equal number of cattle not immune from above the quarantine line, to ascertain whether they are capable of communicating fever. This method has been decided upon as one that will demonstrate efficiency of the dip. The cattle to be dipped are to be selected by Government Inspector Dr. Klein.

Should the experiments prove satisfactory to Dr. Klein, the government will possibly adopt the system. This would do away with all federal inspection and dipping only would be necessary to fit the cattle to pass above the quarantine line.

Reference has heretofore been made in the Journal to tests which were made a little over a month ago at Midland, Tex., and which have proven successful. The results of the coming experiments are awaited with deep interest, especially by the owners of "infected" herds.

THE COTTON SITUATION.

Contrary to the expectations of many who have been influenced by previous reports which have been circulated through the state regarding the total area planted to cotton in Texas, The Dallas News, after a careful investigation, finds a decrease in acreage in the State percentage of 8.54. This result was obtained after a careful and painstaking review of reports from 427 correspondents, covering 145 counties of the State, the reports being of an average date of July 5. For convenience in investigating and for the further purpose of securing reliable data regarding actual acreage as compared with the area planted last year, the State was divided into five districts, north Texas, from which 120 reports were received; east Texas, 62 reports; central Texas, 117 reports; coast country, 47 reports, and southwest Texas, 51 reports. The percentage of acreage in these districts as compared with that of last year, counting 100 per cent for last year, is as follows:

North Texas.....	101½
Central Texas.....	102
East Texas.....	91½
Coast country.....	66 2-3
Southwest Texas.....	96

SHEEP IN THE WEST.

Discussing the improvement of sheep raising methods in the West during the past decade, Prof. R. S. Shaw says:

"Lands which hitherto have produced little more than enough grass for the maintenance of one sheep per acre are now producing their five, six or seven tons of alfalfa or five tons of red clover when placed under irrigation. Many of these same lands are capable of producing cereals at the following rate: Barley, 55 bushels per acre; wheat, 33, and oats, 72, these being the average for one Western county.

"With such an abundance of legumes possessed of unexcelled quality, meats of prime quality can be produced from clover or alfalfa with a minimum amount of grain and at very low cost. It is not a general practice for the feeder to produce the increase in live weight at a cost within the selling price—the profit accruing from the increased value of the carcass."

TERRIBLE CANCER OF THE NECK YIELDS TO THE COMBINATION OIL CURE.

Bandera, Tex., April 2, 1902.
Dr. D. M. Bye Co.:
My cancer is cured up after using one month's treatment of your Combination Oil Cure. At first I could not hardly believe it was getting better when my folks would say it was. I had so little faith in it. But, thanks be to God, it has cured me and saved me untold suffering. I will heartily recommend it wherever I go.

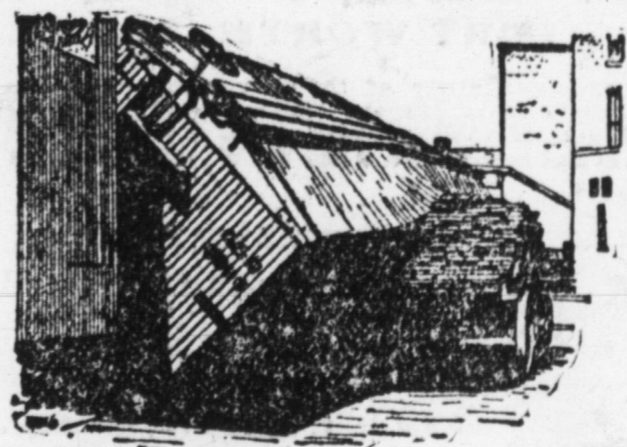
Very gratefully,
Age, 71 years. J. A. NEATHERLIN.
Dr. D. M. Bye's Combination of Oils cure Cancer, Tumors, Piles, Eczema, Skin, Blood and Womb diseases. Doctors, lawyers and ministers of the gospel have been cured and endorse it. It is soothing and balm, safe and sure and cures without pain or disfigurement. Illustrated books and papers sent free to those interested. If not afflicted send this to some one who is. Call on or address DR. D. M. BYE CO., 418 Main street, Dallas, Tex. P. O. Box 462.

PENCILED PARAGRAPHS

M. M. Johnson has disposed of his interest in the Sure Hatch Incubator business at Clay Center, Neb., to his partners and begun the erection of a new factory of his own. During the past season Mr. Johnson has been very successful, having sold 20,000 incubators and brooders for the company. He writes that the machines which he expects to place on the market will be a great improvement over any that the company with which he was formerly identified have ever turned out.

AN OBJECT LESSON.

The accompanying cut of a Studebaker wagon tells the story of its strength and durability. It is a notable fact and thousands of Studebaker users are telling the good story of perfect satisfac-



tion. You buy Studebaker wagons and you buy perfect satisfaction and you get the wagon clear. Isn't that worth consideration? It's worthy of the great name that is branded on every wagon, and after all it's a guarantee of its perfection and high quality. The branch house located at 317-319 Elm street, Dallas, is prepared to furnish the Southwestern territory. Write to Wm. T. Fulton, manager. Your mail orders will receive the same careful attention that we give to our visitors.

COLORED EXCURSION TO PINE BLUFF.

Once more we are going to have a grand time, and we want you all to join us. On Aug. 3 the Cotton Belt will run an excursion from all points on its line in Texas to Pine Bluff, the maximum rate being \$4 for the round trip.

The Arkansas Colored State Fair, Street Carnival and Emancipation Jubilee will be in progress Aug. 4, 5 and 6, 1903, and the limit of your ticket will enable you to spend the entire time in Pine Bluff. Elaborate arrangements have been made for your entertainment, including a base ball game for the championship of Arkansas and Texas; speeches by men of national reputation. Splendid bands will furnish sweet music on the train.

Pine Bluff is strictly a colored man's town, they owning many fine buildings.

\$100.00 RANGE EXTRA!

Our Special Gift to those Who Guess in July.

Appreciating the interest our readers are taking in our guessing contest, we have decided to give away extra, a \$100 Charter Oak Steel Range to the one who guesses in July nearest the attendance of the Texas State Fair at Dallas this fall.

It is possible for one guessing in July to not only secure this special gift, but also secure the piano, as both are given to the one guessing nearest the attendance, but only a July guess can secure the \$100 range. Any one guessing in July will have advantages over later guessers to the extent that the range will go to a July guess.

The time to send in your guess is now, for the first recorded guess in July approaching nearest the actual attendance will secure the range. You have an opportunity to secure \$600 for one guess.

business houses and fine parks, which will be thrown open for your pleasure.

For details of entertainment, amusement, etc., watch for big bills or ask any Cotton Belt agent. Be sure to get to this grand jubilee. For full information write to Harry Goodloe, Kerens, Tex.; Bob Gardner, Tyler, Tex.; W. M. Stratimire, Dallas, Tex.

EXCURSION RATES.



BROWNWOOD, TEXAS.—Meeting Western League Shooting Club. Tickets sold July 12 and 13; final limit July 16, 1903. Round trip rate \$5.65.

DETROIT, MICH.—International Epworth League. Tickets sold July 13 and 14; final limit July 22, 1903. Round trip rate \$34.15.

BALTIMORE, MD.—Annual Meeting Grand Lodge, B. P. O. E. Tickets sold July 16 and 17; final limit July 28, 1903. Round trip rate \$39.30.

BALTIMORE, MD.—Annual Meeting Sovereign Grand Lodge I. O. O. F. Tickets sold Sept. 16, 17 and 18; final limit Oct. 1st, 1903. Round trip rate \$39.30.

KANSAS CITY, MO.—Summer Schools. Tickets sold July 3, 11, 18 and 25; final limit Sept. 15, 1903. Round trip rate \$16.50.

W. A. TULEY, Gen. Passenger Agent, Fort Worth, Texas.

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- KANSAS CITY, July 11, 13, 25
- DETROIT, July 13 and 14
- ST. LOUIS, July 16 and 17
- BALTIMORE, July 16 and 17
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Develops the best women out of the best girls in the best way at the best price possible. Consult your best friend that knows us best and write for a catalogue or other information. D. S. SWITZER, Itasca, Texas.

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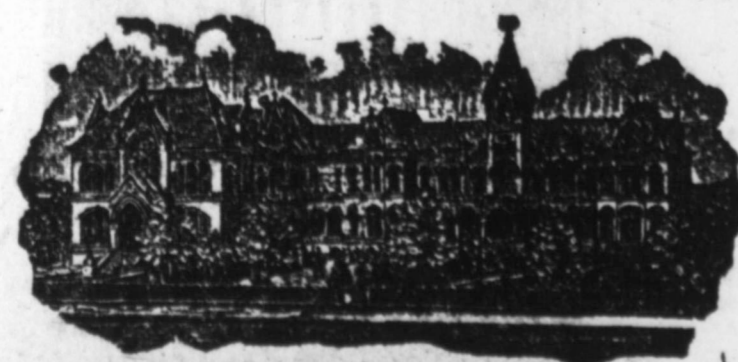
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THE HORSE.

When it is feared that a horse has been foundered, administer a quart of castor oil; and should the bowels not move in two or three hours, repeat the dose.

When a horse fails to chew up the hay and finally drops it from the mouth to the floor or manger, there is every reason to believe that the teeth need attention and a veterinary surgeon should be consulted without delay.

When boys or inexperienced men are entrusted with a horse they should be carefully instructed in the care and treatment of horses, and be taught that patience, kindness and common sense produce far better drivers and more successful horsemen than opposite qualities.

THE DEMAND FOR DRAFTERS.

An order for twenty black draft geldings has been placed in Chicago by one of the largest firms in Pittsburg. This concern uses none but blacks in the Smoky City, hooked to white wagons, and price is hardly considered when the order is being filled. Not so long ago this same firm sent out an order for around sixty head of lighter horses, all blacks and ranging in weight from 1600 down to 1000 pounds. A firm of brewers in New York also has an order in Chicago at present for gray drafters, but as the lowest line is placed at 1800 pounds it is figured that it will take some time to execute it.

A few "straws" of this sort point out to the farmer what type of equine he can breed most profitably. Along this line Breeders' Gazette says:

"For the past few summers it has been the lesson of the auction sales of western range horses that those of draft blood were preferred by the buying dealers and that the more draft blood disclosed by the animals the better the price which would be paid. Another bit of evidence trending along the same line was supplied in the Chicago retail market last week when a full load of range-bred drafters, harness-broken and well mannered sold at an average price of \$175. Reports indicate that buyers did not discriminate materially against the rangebred when in competition with the corn-State article and on every hand the sale as a whole was judged very satisfactory indeed. It would seem that this lesson is practically conclusive when taken in conjunction with those of other years when wholly unbroken horses were the medium of trade. It is true that some very good road and driving horses have been bred on the range, but in the unbroken state such have not sold with the bands of weightier extraction. Range horse-breeding as was disclosed about a year ago in these columns is in rather a peculiar condition in most parts of the plains and mountain country. In view, however, of the extremely good sale alluded to and of the fact that the auctions of such horses will soon be in full swing definite information from dwellers in the range-horse country would be welcomed by the breeding industry at large."

HORSES SCARCE AND DEAR.

The scarcity of good horses and the high prices which prevail are points which have been frequently pointed out by The Journal of late. Some observations along this line are now made by the Breeders' Gazette, which says in the current issue:

"To learn that horses are very scarce and dear one has only to pay a visit to the 'bull pen' at the Union Stock Yards in Chicago any afternoon. Compared with what it was in 1895, 1896 or 1897 the said place of selling it but a shadow of its former self. Then it was a question of there being daylight enough to permit of the horses being auctioned off. Now it is a question of getting enough horses to make it worth the while of buyers to attend the afternoon vendues. It never has cost much to sell a horse at auction in the Chicago yards. It costs no more now and the facilities offered are adequate in every way. But the horses are not for sale. They are not being shipped in for sale. Only a few good horses are sent on for each day's sale. The rest are low in condition and often go for less than than country cost—at least that is the story told time and again within the hour. A motley collection these horses are outside of the few good ones which daily are sent forward. Most of the animals are merely country scrubs not in the best of condition and prices on such may fairly be said to be just 100 per cent higher than they were in any one of the years mentioned. Horses which in these years would not have brought more than \$60 a short time ago, go readily at \$180 now. Smallish

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pairs of mares such as sold at \$100 or thereby for the two animals sell for \$250 far more quickly than they did for less than half as much seven and eight years ago. And at that a tremendous lot of rubbish is being sent on, rubbish which would never have seen the market in the years named and if it had it would not have elicited a bid. Any kind of a good horse accustomed to city fare will sell for \$60 or thereabouts and some users prefer to have such rather than country horses much younger but not accustomed to hard grain and hay and nothing else.

Avoid casting before swine more than they are able to clean up at one feast. If not "stuffed" they will relish the next meal to a much greater extent.

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HEREFORD HOME HERD, Channing, Hartley county, Texas. Wm. Powell, proprietor. Herd established in 1883. My herd consists of 400 head of the best strains, individuals from all the well known families of the breed. I have on hand and for sale at all times cattle of both sexes. Pasture close to town. I have some 100 bulls for sale and 100 head of choice yearling heifers, all Texas raised. Bulls by carloads a specialty.

JOHN R. LEWIS, Sweetwater, Texas. Hereford cattle for sale. Choice young registered bulls and high grades of both sexes on hand at all times. Ranch south of quarantine line and stock can go safely to any part of the state.

SUNNY SIDE HEREFORDS. Twenty high class registered females for sale, and one and two-year-old heifers and cows, sired by Sanhedrim 46180, Ikard 6th, Warrior 80177, Wilton Alamo 9th, and Beau Brummel, Jr., the two and cows bred to Warrior 5th, Patrolman 2nd and Patrolman 4th; also fifty high grade females 1/2 to 3/4 bred as good as any in the state.
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LEE BROS., PROPRIETORS, San Angelo, Tex., breeders of registered and high grade Herefords. Both sexes for sale.

W. J. STATION, BEEVILLE, TEXAS. I have for sale at all times registered, pure bred and high grade Herefords, Durhams, Devons and Red Polts of both sexes. All raised below the quarantine line. Call or write for prices.

HEREFORD PARK STOCK FARM. Pure bred Hereford cattle, largest herd south of quarantine line. None but high class bulls in service; Lord Wilton, Grove 3rd, Garfield and Anxiety strains. Sale stock, both sexes, kept on Saginaw ranch, near Fort Worth. Come and see, or write your wants. -B. C. RHOME, Fort Worth, Tex. Phone 369.

J. L. CHADWICK, CRESSON, TEX., Near Fort Worth, breeder of registered and very high grade Hereford cattle. Bulls for sale.

HEREFORD GROVE STOCK FARM, Childress, Tex., breeders of pure bred registered Hereford cattle. A choice lot of young bulls and heifers for sale at reasonable prices, breeding considered. All Panhandle raised. Only first class bulls, both as to breeding and individuality kept in service. U. S. WEDDINGTON, manager.

V. WEISS, Breeder of pure-bred Hereford cattle. (Ranch in Goliad county, Texas.) Both sexes for sale. Address Drawer 817, Beaumont, Texas.

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IRON ORE HERD Registered Red Polled cattle, some bulls, cows and heifers for sale. Breeder, W. C. Aldredge, Pittsburg, Tex.

CAMP CLARK RED POLLED Cattle. J. H. JENNINGS, Prop., Martindale, Tex.

W. R. CLIFTON, Waco, Tex., breeder of RED POLLED CATTLE, Berkshire Hogs and Angora Goats.

"SAN MARCOS VALLEY HERD" Registered Red Polled cattle for sale. J. L. JENNINGS & BRO., Martindale, Tex.

TEXAS raised Red Polled bulls for sale. HOWELL BROS., Bryan, Texas.

The World's Fair live stock shows of 1904 will be the first in which the classifications will be uniformly divided by age periods of six months instead of one year for beef cattle, swine and sheep, thus giving proper recognition to the general method of feeding for early maturity.

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The Journal Institute

CULTURE OF THE ORCHARD. A recently issued bulletin upon this subject by the Nebraska Experiment Station gives the following general conclusions:

We may fairly say that the tests reported indicate the best all-round method of culture for young orchards to be thorough cultivation in early summer, followed by a cover crop in fall, so far as tests covering only a few years can prove any method best. A mulch of straw is known to keep the soil moist during summer, and it also protects tender roots in winter, but its use will surely increase injury to tender tops of trees by prolonging fall growths. Besides a mulch includes shallow root development, which may result disastrously in later years, and its use is out of the question in large orchards. Thorough cultivation protects trees against drought as well as mulching, and keeps the roots from forming near the surface of the ground. When cultivation is given in early summer, all that is necessary in order to furnish winter protection is to stop cultivating in mid-summer, grow a cover crop (weeds being better than nothing) which will dry the ground in fall, causing the new wood growth to ripen early in preparation for winter, and which will, by holding a mulch, protect tender roots during winter. Good cultivation in early summer can often be given young trees by growing some cultivated crop in the orchard. Tender crops are best, since they cannot be sown so early as to dry the ground seriously in spring and are killed by fall frosts, thus preventing very late drying. Cropping with corn, for instance, insures fairly thorough early cultivation, and corn is a fair substitute for a cover crop in fall and winter.

PRUNING FOR FRUIT.

Every kind of tree or plant, in fact, every individual, presents its own peculiar problems to the pruner. Hence no arbitrary rules can be given. To do the work most judiciously the operator must understand the principles involved, then apply them to each case. Skill in pruning can come only with experience and practice.

Perhaps the most important thing is to observe the manner in which the fruit is borne, says a bulletin issued by the agricultural department. For instance, an apple or pear tree bears its fruit mostly on "fruit spurs," and so would not be pruned in the same way as a peach tree, which bears its fruit only on last season's growth. A quince tree, which produces its fruit on the tips of the growth made the present season, would naturally be pruned differently from either an apple or peach tree. Likewise, the correct pruning of grapes is based on the fact that the shoots of the present season produce this year's crop. The same principle in pruning holds true throughout the whole list of fruits—that is, the manner in which the fruit is borne should govern the manner of pruning.

In a general way, it may be said in regard to tree fruits that all dead branches should be removed and the top of the trees be kept sufficiently open to admit an abundance of sunlight for the coloring of the fruit. Reasonably open tops are also of great advantage in spraying the trees and in harvesting the fruit. The natural

habit of the tree should suggest the form to be adopted by the pruner. In other words, a tree the branches of which naturally droop cannot well be pruned to an upright form, and a tree with a strong tendency toward forming an upright head cannot readily be made to assume a decidedly spreading form. Of course these natural tendencies can be influenced in a measure by the manner of pruning, but they cannot be entirely overcome. The tops should be kept symmetrical and as well balanced as possible.

The pruning of the various kinds of small fruits is based on the same general principles as the pruning of fruit trees—that is, the manner in which the fruit is borne and the character of the growth should govern the method of pruning.

BOOM IN SOUTHERN TRUCK RAISING.

It is a tale among fruit growers and men interested in fruit culture that a commission firm in Boston, which supplies the most fastidious trade in the city, has a standing offer of \$16 for the first car of Elberta peaches that goes out of Jacksonville, Tex., every year. This is equal to \$4 a bushel.

Last year, according to the St. Louis Republic, there were 300 cars of peaches and vegetables shipped from that little town alone; and the fame that follows the flavor of the Texas Elberta peach, with the wonderful yield of tomatoes and the most incredible profits, has caused a perceptible turn in the tide of immigration that five years ago was steadily to the West and Northwest. Twenty thousand acres have been cleared in Cherokee county alone since 1897, and probably three times as much have been turned to the culture of the small fruit and vegetables in Smith county. This is an increase of three hundred per cent in the area under cultivation in each of the counties in six years.

Fifty thousand persons, it is estimated, have gone to East Texas since the discovery of the adaptability of the soil to fruit and vegetable culture. A net profit of \$3650 was made by James G. Boles on a farm of 105 acres, four miles east of Jacksonville, last year and the year before in peaches. Mr. Boles paid \$2750 for the land seven years ago, and after the crop was gathered last year he sold the premises to Wesley Love of Jacksonville for \$3000. Five million dollars, it is estimated, are being spent in Hopkins, Smith and Cherokee counties by St. Louis and Ohio capitalists on the showing of fruit culture since 1897, and the expenditure is being made after a careful investigation of soil conditions and of products.

CARE OF THE PEACH CROP.

There is no adjunct of the farm which can be made a better source of satisfaction and profit than the peach orchard, properly managed. The trees usually come into bearing before they have been planted three years and, by a little care and attention, can be made to yield a choice crop each season. In the National Fruit Grower, Rolland Morrill, who has large fruit growing interests throughout the Michigan and East Texas fruit belts writes:

"I think nine-tenths of the peaches are picked either too soon or too late and not at the right time. A peach one-half or two-thirds grown is semi-colored and if picked will go on and take out the color, but never matures, never gets flavor and never has size. The last forty-eight hours in the development of the peach is what gives it the size, and it is a very important factor in selling. A peach should be picked as the greater portion of it turns to yellow or cream white, depending upon the variety. It should be picked immediately. It frequently happens that you should go over an orchard every day, every tree, and take out every ripe peach. A great many people gather their crop at two or three pickings, and they find their fruit coming into market in bad order and the commission man perhaps, making a bad report on it, and they do not like the commission man, while the fault is with them, and as our markets are getting better and better supplied each year by competent men, the men who cannot understand this, who cannot understand what the customer wants, must be the sufferer. He has nobody to find fault with but himself. I see a great lack everywhere I go of proper preparation for handling crops, even among large orchard growers. They are not well equipped as a rule, and not prepared to handle a crop when they get it, and then after working for years and years to get a crop they lose a large percentage of it from their inability to care for it rightly."

Breeders Who Seek Your Trade
Shorthorns.

DURHAM PARK SHORTHORNS— Herd Bulls: Young Alice's Prince 171111, champion bull of Texas; Imp. Count Mysie 149751, bred by Geo. Campbell, Aberdeenshire, Scotland. DAVID HARRELL, Liberty Hill, Tex.

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V. O. HILDRETH, Breeder of registered and full blood Shorthorn cattle. Young stock for sale at all times. Cattle and residence at Iowa station, on T. and P. railroad, 15 miles west of Fort Worth. Postoffice, Aledo, Texas.

W. A. RHEA, PROPRIETOR Rhea Mill herd of Shorthorns, Durhams, has for sale choice registered young bulls, ones and twos. Also, a nice lot of cows, ones, twos and threes. Good individuals. No trouble to show stock. Phone in residence at McKinney and Rhea Mill, Texas.

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BLUE VALLEY HERD Immune Shorthorn cattle. Foundation consists of get of Mr. Leonard's "Lavender Viscount," and Mr. Gentry's noted bull "Victorious." A few bull calves for sale. Write for prices. J. W. CAREY, Armstrong, I. T.

CRESCENT HERD, registered Shorthorn cattle, young stock, both sexes, for sale. Address CHAS. MALONEY, Haslet, Texas.

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Young bulls by the Undeafated \$1000 bull Royal Cup No. 123093 and out of \$500 cows. Poland China Herd headed by Perfect Sunshine No. 29127 by "Perfect I Know," whose get has never known defeat in the Show Ring. Sows in here by the \$25.00 "Corrector" and the Grand Sweep Stakes winner, "Proud Perfection," sire of America's greatest prize winners. JNO. B. BROWN, Granbury, Tex.

WM. D. & GEO. H. CRAIG, Graham, Tex., on Rock Island railroad, below quarantine line, breeders of registered Shorthorns and double-standard Polled-Durhams. Young bulls and heifers of serviceable age, our own raising, for sale. All of the oldest and best Shorthorn tribes and of the choicest breeding. Correspondence invited and all inquiries answered.

WM. & W. W. HUDSON, Gainesville, Texas. Exclusive breeders of registered Shorthorn cattle.

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ALLENDALE HERD, Aberdeen Angus, the oldest and largest herd in the United States. Registered animals on hand at all times for sale at reasonable prices. Four splendid imported bulls at head of herd. Address THOMAS J. ANDERSON, manager, Allendale Farm, Rural Route No. 2, Iola, Allen county, Kansas, and visit the herd there; or, address ANDERSON & FINDLAY, Props., Lake Forest, Ills.

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SWINE

When shipping hogs to market in hot weather, avoid overcrowding the cars, as many deaths are attributable to this cause.

The brood sow of cannibalistic tendencies should not be permitted to survive long enough to obtain another meal off her progeny.

Volume No. 5 of the American Ram-bouillet Record has been received. It contains 306 pages, filled with pedigrees 15,674 to 20,673 inclusive, also transfer records 4307 to 6294 and a description of the rules of registry.

LENGTH OF HOGS' INTESTINES

Darwin states that the nature of the food supplied the pig by man has evidently changed the length of the intestines. He quotes Cuvier as reporting the total length of the intestines of the wild boar to be nine times the body length; in the domestic boar 13.5 to 1; in the Siam boar, 16 to 1. The writer measured the intestines of thirty-nine fattened hogs and found that the large intestine varied from 13 to 16 feet, and the small intestine from 54 to 60 feet in length. The average extreme body length of these animals was 3.5 feet. This makes the small intestine alone from sixteen to nineteen times the length of the body, and the large and small intestines combined about twenty-one times the body length. From these figures it appears that the intestines of pigs of the improved breeds are longer in proportion to the body than those given by Cuvier. This may indicate that the modern pig can digest his food more thoroughly than his ancestors, and also that he can eat a larger quantity of food in a given time. —Professor W. A. Henry.

OUR FRIEND, THE PIG.

Of course there are pigs and pigs, and, likewise, there are fashions in pigs, as in millinery and other merchandise. Moreover, wholly aside from the matter of breeds or types, there are at least two radically different notions as to what a pig ought to be. Consequently, it is rather difficult to state the "points" of a good pig. Indeed, some say a pig should have no points at all—he should be quite round, like a sausage. But even this definition might not please the southern "Cracker," for his favorite "razorback" is a long-legged, nimble fellow, built primarily for speed.

The epicures, who are satisfied with nothing less than the bacon with a "streak of fat and a streak of lean," are ready to declare as an abomination greasy, unwholesome and unclean, the Yankee porker that has attained his form and fame through the absorption of Indian corn for generations unnumbered. On the other hand, many of the points which pertain to what are called "bacon hogs," of English, Irish and Danish types, are not at all approved by the average swine growers of America, who produce a great proportion of the pork products of the

BERKSHIRE.

WINCEY FARM BERKSHIRES

and B. P. Rock. 2c stamps and testimonials. S. Q. Hollinsworth, Coushatta, La.

SHERMAN HERD—Poland China and Duroc Jersey thoroughbred hogs. In this herd is a majority of the prize winners at Dallas and San Antonio fairs 1902—125 pigs ready to ship in June and July. Write for full information. C. D. HUGHES, Sherman, Tex.

LILLARD FARM BERKSHIRES.

Nothing in hog line for sale until after April 15. B. P. Rock eggs from prize-winning stock at San Antonio fair, at \$1.50 per setting. Few cockereds at \$2.00. GEO. P. LILLARD, Seguin, Tex. Box 210.

POLAND CHINA.

RICHARDSON HERD POLAND CHINAS Herd headed by the great Guy Wilkes 2nd, Jr., 20367, assisted by Texas Chief. Pigs for sale of the most fashionable strains. Satisfaction guaranteed. Correspondence solicited. J. W. FLOYD, Richardson, Dallas County, Texas.

REGISTERED Poland China hogs. I have eight very fine Perfection-Sunshine Poland China pigs for sale, at reasonable prices. They are good ones. Their sire is a son of Chief Perfection 2nd; their dam is an Ideal Sunshine. **STUART HARRISON, Fort Worth, Tex.**

world. After all, the lean, leggy, yard-less hogs which mainly represent the so-called bacon types are but a relatively small factor in the world's food supply; and, therefore, what is said here will be applicable mainly to the opposite types, although to all good pigs, whatever the breed.

A somewhat short, broad face, wide between the eyes, terminated sometimes, but not always, by a slightly upturned muzzle, is deemed extremely important for what it suggests with further reference to the individual possessing it. It says to the pig's owner, "This animal is of a quiet disposition, and has strong digestive and assimilative powers, likely to extract the utmost from the food consumed, for conversion into valuable product, with small probability of wasting must of it through restless energy."

The well-rounded and rather prominent jaw, along with the short head, suggests quick-feeding quality and early maturity in the animal managed for such a purpose.

A medium-sized, soft, silky ear, thin and inclined to droop, goes, in most breeds, with high quality and light offal, as do large, heavy ears and tail, thick skin and coarse hair, and bone, with flabbiness and large offal; while the erect, foxy, pointed ear, sharp, long nose and convex face generally bespeak a nervous activity and perhaps viciousness.

A deep chest, which is wide between the fore legs, indicates that he is probably of robust constitution, with plenty of lung room for large breathing; it also signifies a hardness that successfully resists or repels the many diseases which seem to lie in wait for the defenseless pig.

A not too long, slightly arched back, broad by being well packed on each side of the spinal column with muscle, which in this part of the body is known as tenderloin, tells of strength in various ways, as well as of added weight.

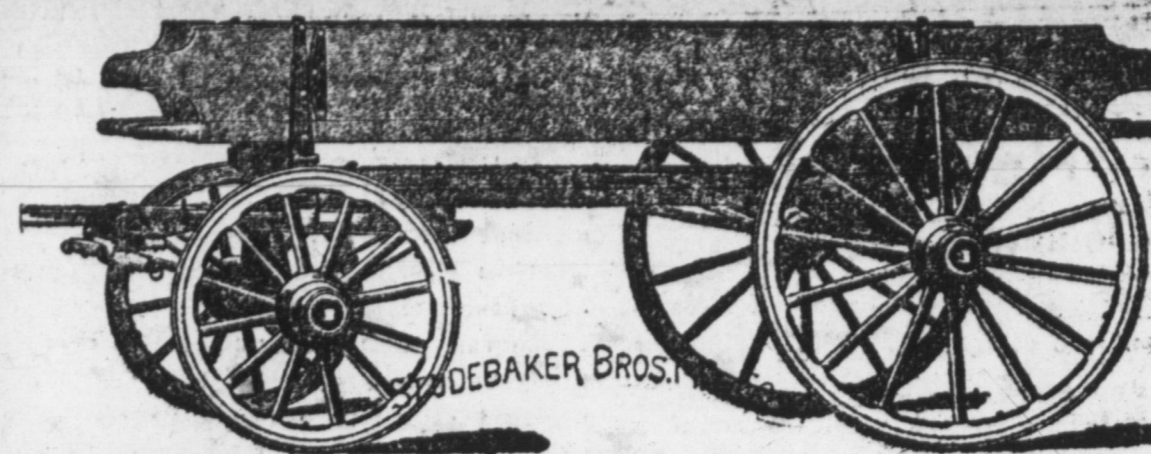
If the top of the rump is built backward quite level, without much slant to the setting of his tail, not too low down, and his thighs are fleshy, full and large, firm and well let down in the twist, with the meat spread thickly on well down to the hocks, this gives a large ham, and it need not be said that the ham is a considerable proportion of the very highest-priced meat in his carcass. This is an important consideration to grower and butcher.

Sides of considerable length and depth, with an even underline, mean a goodly weight of meat, which, if not extremely fat, is accepted everywhere as a good quality of bacon; but if very fat, makes much of what is known as "side meat," and esteemed as palatable and economical food by those who do hard labor.

Rather short, stocky legs are likely to be found on the pig with the deep sides, and are much of an index to the animal's general character and constitution. They should be neither too fine and small, nor too large and spongy, but amply strong for supporting the carcass at any stage or weight. The ankles should be strong so that the pig stands firmly and walks squarely on short broad feet, without difficulty and without signs of being in any wise crippled. Faulty breeding and a corn diet for generations have tended to faulty, sprawling feet and weakness in the lower limbs of many of the otherwise most perfect swine. These are defects which breeders should strive to overcome by selection, mating and properly balanced diet. Animals so vitally weak in one part are likely to have kindred weakness in other parts that no careful breeder wishes to possess or propagate.

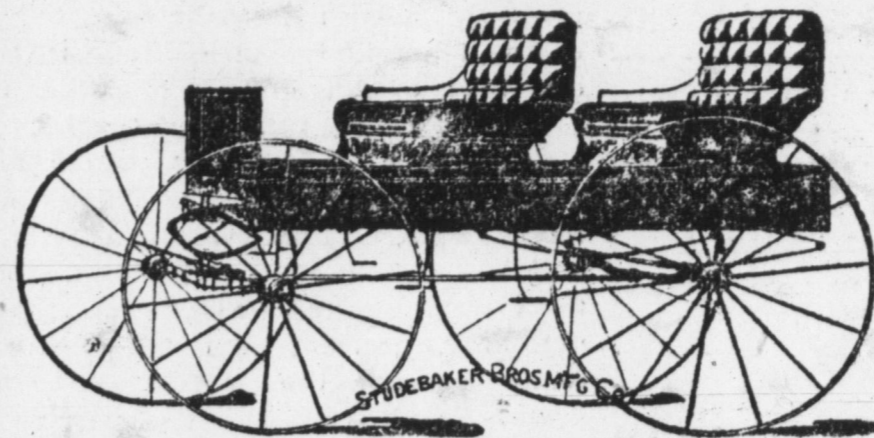
Abundant hair, lively and somewhat fine and soft, growing out of a pliable skin, which is neither thick nor papery, and free from mangy conditions, tell the story of robust health, vigor, thrift and active circulation.

The ideal pig should not be too sleepy and sluggish, nor, on the other hand, restless and uneasy. Free action and a bright, sprightly manner are signs of good digestion and good health. If he is a comfortable, good-natured, friendly fellow, wide awake, disposed to visit with his owner, instead of running away from him, and has the other points mentioned, he can scarcely fail to be a joy to his possessor, and approximate, in the eyes of many of us, a thing of beauty.—F. D. Coburn.



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SHEEP--GOATS

FRINGED TAPE WORM OF SHEEP.

The South Dakota Experiment Station has just issued a bulletin on the fringed tapeworm of sheep, which is applicable in its information and advice everywhere this trouble occurs. The bulletin states that there the mortality sometimes runs high in the flocks from this cause; that the worm is usually found in the small intestines. Of the symptoms it says attention is called to the fact that lambs which should be doing well are unthrifty, scour and soon begin to gradually die. A more careful examination will show that the mucus membranes of the eyes are pale and bloodless; and, as the animal becomes more seriously affected, it appears thin and emaciated, and the skin hidebound. Soft swellings appear under the throat or in the neighborhood of the neck, owing to the serous extravasations; the gait becomes feeble, the body under-sized, and the head often large.

As a treatment the bulletin says: "We are indebted to Bulletin No. 19 of the Bureau of Animal Industry for the following description of the Hutcheson method of treatment:

(a) To prepare the mixture dissolve one pound avoirdupois of good commercial powdered blue stone, sulphate of copper, in two imperial quarts (2 2-5 U. S. qts.) of boiling water. When the blue stone is thoroughly dissolved, add 6 1-2 imperial gallons (7 4-5 U. S. gals. or 31 1-5 U. S. qts.) of cold water, making in all 7 imperial gallons (8 2-5 U. S. gals.) of water. Use only blue stone of uniformly blue color. Avoid that which is in conglomerate lumps with white patches and covered with a white crust. The owner is cautioned against guessing at the weights and measures, for this is sure to result in too strong a solution, which will kill his animal, or too weak a solution, which will fail to be effective. If a smaller quantity than the above is desired it can be made up on the proportion of one ounce of copper sulphate to two quarts of water.

(b) Preparation of the Animal—Fast the sheep twenty to twenty-four hours before dosing.

(c) Size of Dose—

Age of animal.	Table- spoonful	Fluid Ozs.
For a lamb 3 months old.....1	1	2-3
For a lamb 6 months old.....2	1	1-3
For a sheep 1 year old.....3	2	
For a sheep 1 1/2 years old....4	2	2-3
A sheep 2 yrs old and over...4 1/2	3	

The dose should be measured off in bottle plainly marked with a file, to serve as a graduate.

(d) Dosing—While a drenching tube is more satisfactory, the popular meth-

od of drenching is with a long necked bottle. The assistant places the sheep on its haunches, taking its forelegs in the left hand and steadying the head with the right hand. The bottle is then inserted in the sheep's mouth and the solution slowly poured down to prevent choking. For the same reason do not raise the nose above the height of the eyes. In this connection it is of interest to note the results obtained by Stiles in drenching sheep in different positions. If the animal was drenched while standing, almost the entire quantity of the dose went into the fourth or true stomach. If it was placed on its haunches, the fluid passed partly into the fourth stomach and partly into the first. If it was placed on its back, almost the entire dose passed into the first stomach or paunch. These tapeworms being found principally in the intestines, it is quite evident from Stiles' experiments in drenching that the most favorable results are to be expected by drenching the animal in a position, inasmuch as that portion of the dose which otherwise passes into the other compartments of the stomach is largely lost. But the most usual method of drenching is as already described.

(e) Overdose—If after dosing, any of the sheep seem to be suffering from an overdose, indicated by lying apart from the flock, not feeding, manifesting a painful excited look and a spasmodic movement in its running, walking with a stiff gait, or purging with a dirty brownish discharge, take the affected animal from the flock to a shady place and dose with laudanum and milk. For a lamb four to six months old give a teaspoonful of laudanum in a tumbler of milk. Repeat half the dose in two or three hours if necessary.

After Treatment—The animals should not be allowed water for several hours after receiving the copper sulphate.

SHEEP IN SOUTH AMERICA.

A correspondent of the American Sheep Breeder in South America writes: "That some of the people are alive to the advantage of using good blood was shown by prices paid at the sales of imported stock. One thousand dollars in gold was paid for the best sheep and \$7000 for the prize bull, and many others brought nearly as big prices. "In sheep the Lincolns are the most popular. There were some shown at the above-mentioned show of 400 pounds weight and one only eleven months old weighed 300 pounds. "Rambouillets are practically the only Merino sheep in this country and there are some very good specimens of the breed here. There are a few Shropshires and Oxfords, but the two first named breeds dominate the trade almost exclusively.

"Of course full blood stock is only owned by the large estancieros who live near Buenos Ayres; the small farmers and renters are as yet paying no attention to flock improvement.

"Scab has a firm hold on the Argentine sheep but it is being battled bravely. Fully \$4,000,000 is spent annually for dips here. Various authorities estimate the sheep of the Argentine Republic to number from 100,000,000 to 120,000,000, a very considerable portion of the republic's wealth. It is being recognized here that the shepherd's welfare is the public's welfare."

SHEEP ARE GOOD MIXERS.

Professor Kennedy, of the Iowa Experiment Station, says that there are 600 kinds of weeds and grasses growing in the agricultural states, and of these sheep eat 550, horses eat 32 and cattle eat 56. He says sheep relish most weeds and do well on them, therefore, every farm of a quarter section should have at least a flock of twenty-five sheep to help keep down the weeds, and that small flocks pay their way on most farms in this way. He adds:

"Less labor is required in handling sheep than almost any other kind of stock. During a large portion of the year they will take care of themselves and at the same time utilize the weeds and other wastes found on so many farms. True it is that at certain seasons of the year they must be given food, care and attention. This is especially so at lambing time. The successful flockmaster is the one who watches the old and young very closely at this season of the year."

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U S U S U S

DAIRY

During warm weather it is well to turn the cows into the pasture at night.

Milk is made sour by a group of bacteria that grows in the milk and acts on the milk sugar and produces lactic acid. These germs stop growing when the lactic acid reaches the limit of 8 per cent. There is milk sugar left in the sourest milk.

TO KEEP BUTTER IN SUMMER.

To keep butter in the summer season, pack it in well soaked tubs or firkins, put a little damp salt in the bottom and place it in a cool, dry cellar on a bench of wood about 18 inches from the cellar bottom, and the same from the wall. Stone or earthenware does not keep butter well, as the moisture from the surrounding atmosphere, in warm weather, condenses on such vessels and soon affects the butter. Put no salt on or between the layers. Fill to within half an inch of the top, and place a clean wet cloth over the butter, and pack the edges down with a knife, and then spread thinly wet salt over the top of cloth. The above mode of packing and keeping butter will be useful to many, and cause a smile of delight to the buyer.—*Epitomist.*

PREVENTION OF MILK FEVER.

Some of the breeders of the Island of Jersey have fallen upon a plan which has given very satisfactory results towards the prevention of Milk Fever. A few dairymen in this country have adopted the same plan with equally as marked results. Yet, the cases reported so far do not cover a sufficient number to demonstrate the entire reliability of the treatment, but are sufficient to warrant a trial. The treatment consists in simply milking enough milk to ease the udder, at intervals of four to six hours—say one-half pint from each quarter at a milking or four to six quarts in twenty-four hours. In two or three days after calving the udder may be milked clean.

Mammitis has not followed this treatment as one would naturally suspect.

In the cases from which such favorable reports have come, no other measures were employed in order that a correct estimate of its virtue might be obtained. For this reason, the writer believes that a dose of salts given a few hours before calving and then followed by the above treatment will prove very satisfactory in preventing this condition, as a purge by itself, tends to prevent Milk Fever as well as Mammitis.

TYPE IN DAIRY COWS.

I would like to heartily endorse the sentiments, "Form as an indication of dairy propensities." We hear the trash argument that type has not anything to do with performance, coming from the beef breeders, and very seldom from a dairyman.

My experience is that type is all we have to go by, and I firmly believe that I can take Jerseys and in twenty-five years' selection for beef points breed them to the perfect beef form of the Durham, and in the same time can breed the Durham to the perfect dairy type of the Jersey, simply by selection and nicking.

If we cannot judge from type we have nothing to go by. I have had fifteen years' experience in dairying, and I find that every time we try to couple the beef qualities with the dairy we lose in the production, and when the beef men breed their cattle to dairy production they lose their perfect beef type.

I am also confident that a man is just as big a fool to waste good feed on a dairy animal to make beef as he is to waste good feed on a beef animal to make dairy products, and the only person that needs a general-purpose cow is a general-purpose man.—*Edgar Silcox in Farmers' Advocate.*

THE MECHANICS OF LACTATION.

The exact mechanism of milk-secretion by the cow is very interesting. The epithelial cells with their blood and nerve supply are the important factors in milk-secretion. All other things are subordinate. Upon the development of the cells depend the quality and quantity of the secretion. The cow must be viewed as a re-

ceptacle into which so much water and solid food may be introduced at one end, while from the other end so much milk may be drawn, writes J. J. Repp, a well known dairy expert. Without denying the influence of other things it is safe to conclude that most depends upon the capacity for work possessed by the cells of the gland.

The epithelial cells, which are the working part of the gland, and which line the innumerable little sacs and tubes which make up the gland, are little masses of proteid substances, known as protoplasm, enclosed by a thin membranous wall. Near the center of the cells is a small particle of more condensed protoplasm called the nucleus.

As the time for calving approaches, these cells multiply rapidly and are cast off into the acinus. In addition large white blood cells, called leukocytes, find their way into the acini. These leukocytes take up fat droplets which are secreted by the epithelial cells and tubules.

When calving occurs, watery materials are added to these accumulated cells, and the resulting fluid is known as colostrum. The large leukocytes with fat droplets within them are a prominent feature of the fluid when viewed under the microscope.

Gradually the character of the secretion changes, until about the end of the fourth day it has the true characters of milk. While at rest, the epithelial cells are small and granular. As activity sets in and advances, the cells become increased in size, the granules disappear, and the cells become filled with secretion.

The outer part of the cell, between the nucleus and the lumen of the tubule, undergoes fatty change and is cast off to constitute part of the solids of the milk. The remaining part of the cell, which contains the nucleus, then immediately undergoes a regenerative process, so that soon the cell is restored to its full size and capacity for work.

This cycle of degeneration and regeneration may be repeated a number of times in each cell before it finally dies and is cast off. In the process of milk secretion the whole cell does not degenerate, only the outer part of it.

The fat, casein, albumen and milk sugar are formed by this process of partial degeneration of the cell. The water and salts, on the other hand, are the result of simple transudation, or filtration, from the blood and lymph canillaries which surround the cells.

As evidence that the formation of casein and sugar are not a mere filtrate, we have the fact that they do not exist preformed in the blood or lymph even up to the point at which these fluids come into contact with the cell. Fat exists in the blood, but only in very small quantities.

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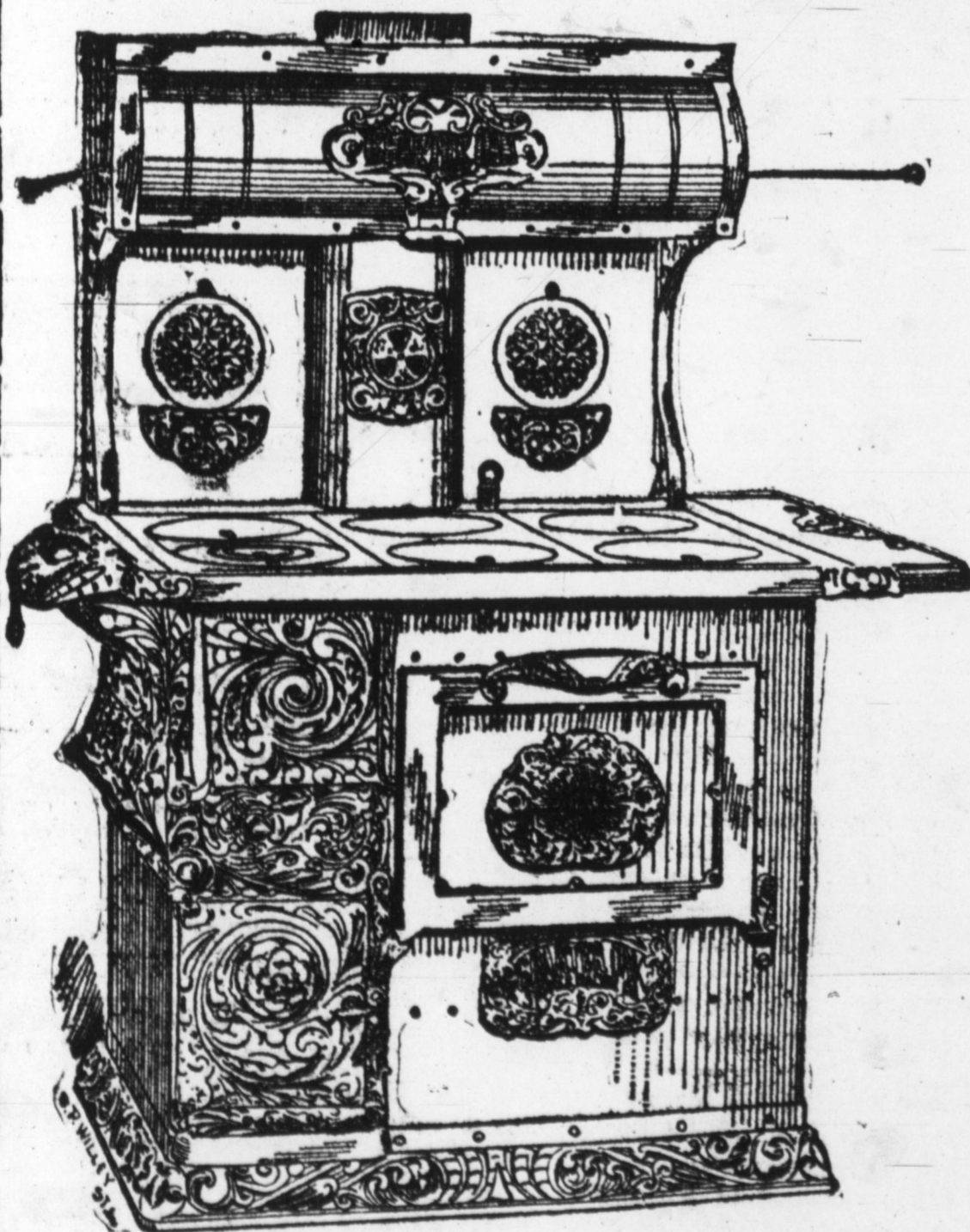
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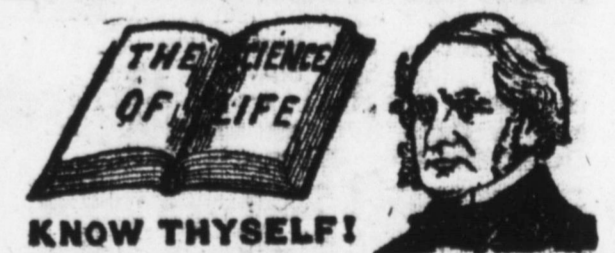


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EDITOR'S NOTE. For 40 years the Peabody Medical Institute has been a fixed fact, and it will remain so. It is as standard as American Gold. The Peabody Medical Institute has many imitators, but no equals.—*Boston Herald.*

WOMANS DEPARTMENT

RAIN AND DUST COATS.

An indispensable article of apparel is a long dust or rain coat for traveling, and much thought has been expended in developing something graceful as well as useful for the purpose. These coats will also be found valuable for shopping or when it rains or threatens to do so. They are generally made of taffeta or cravenetted wool of some kind, though the silks for this purpose as well as for many other purposes are treated by the process which makes them waterproof. These coats are unlined, are loose enough to slip on easily over any costume and are very long, some of them having almost a train in the back. The finish is plain, as a rule, but a few of the coats display a little ornamentation. A pretty one has a cape made of three folds, the lower two being detachable. The loose sleeves have two folds laid around and slightly fastened. At the side seams are pockets, excellent and sensible things which are almost forgotten by most women.

Just now lovely woman is thinking of but little beyond amusing herself, and few there be who have not stocked up with sweaters, golf vests and all sorts of things in the way of mountain climbing frocks, to say nothing of wheeling suits and auto costumes. The last for the present season are more apt to be of crash or heavy unbleached linen than anything, with becoming hats and caps. The approaching cup yacht races have evoked a long line of sailor suits with something about each to signify to which boat the wearer's heart leans, and there are many suits with soft green shamrocks embroidered on the sleeves and wide collars. These suits are mostly of duck, though quite a number are of strong Irish linen, bleached or unbleached.

Among the newest of the materials now being made up for auxiliary dresses and suits for the smart set one finds some really exquisite mercerized chevrons, soft and yet so silky that it is almost impossible for one to think they are not at least half silk. A few of these chevrons are plain; other styles have an embroidered design; some are all white or black or in various solid colors or in mixtures.

Some of the all over embroidered batistes in colors make up into beautiful dresses, and there are some all over white ones quite as attractive. A new



GOWN OF FRENCH GRAY VOILE.

wrinkle is the old fashioned embroidery patterns made so that around the bottom of the dress there is a design which has wheels of large dimensions encircling smaller wheels, while the lower side is scalloped out and button-holed heavily for the edge.

White lawn and finer batiste dresses are shown for belated ones or those who like to get new gowns from time to time all through a season. These are trimmed with lace in the usual quantities, which means all that can be put on, but now there seems to be rather a fancy for the finer laces, like *luzerne*, valenciennes and white chan-

ny. Some of these dainty thin frocks have fancy shawl shaped capelines made of the same material as the dress and trimmed to match. The point of the shawl reaches down below the waist in the back and also in the front. The dresses can only be made with material forty-four inches wide, as the shawl is precisely square, and is worn doubled, so that both points appear at the back one below the other. Some like to wear this shawl as a fichu, but there are so many of these that one is forced to believe that they will be a fashion in themselves as shawls pure and simple. For several seasons there has been a movement in favor of the crape and india shawl, but somehow they have been voted down, and these may be before winter, but they are pretty in the light stuffs.

For fine dinner gowns the black spangled dresses are very fashionable, and are prettiest when the black spangles are picked out with silver ones. When there is a large leaf it is outlined with the silver or veined with it. The effect is fine.

One of the prettiest gowns I have recently seen was of pale French gray voile. The corsage was trimmed with a double bertha of cream tambour lace edged with a double ruche of soft liberty silk in a delicate shade of eau de nil. The small turn down collar was made of the same silk, and there were two hanging ornaments in cream silk cords to finish the soft lace front, which also formed the vest. The skirt was gathered on cords in three tiers falling full to the foot.

HENRIETTE ROUSSEAU.

PUNISHING THE CHILD.

Use a little logic in correcting your child.

It is unjust to ignore a child's faults and only occasionally punish them—probably with undue harshness—when they have occurred at an annoying time or when you were in a bad temper. Never give way to temper in correcting a child. Wait until your feelings are calm.

Give the child as few commands as possible, but insist that these be rigidly obeyed. Do not enforce obedience by idle threats, for as the child's intelligence grows it will see that these cannot be kept and will be unmoved by them. The minute the child discovers that the mother does not mean what she says respect and discipline vanish.

If a threat is necessary let it be one which can be carried out immediately. Let punishment follow as closely as possible the offense. It is unwise and unkind to prolong the unhappiness caused by a small fault by suggesting a punishment which must of necessity be deferred. Don't deprive the child of a promised good time next week because of what he has done today. Let him begin next week with a calm mind and a clear conscience.

All punishment should be logical, and the reason for things should be explained to a child as soon as it is old enough to understand.

Always expect a child to be good and show great surprise and disappointment if he fails.

It is very unwise to suggest naughtiness by such remarks as "She is not going to leave her things around again in disorder, is she?" "He won't be a bad boy and slap his little sister again, will he?"

And, above all, remember this—let the punishment be as light as possible and always make the children feel that you are their friend and good adviser instead of their tyrant.

HELEN CLIFTON.

THE REFRIGERATOR.

Look the refrigerator over every morning and see that the shelves are wiped off. A bit of meat left on the shelves, a few drops of milk or cream spilled and allowed to sour, will taint every other article of food inclosed within the chest. Twice a week take everything out and wash the racks with warm water that has baking soda dissolved in it. Wash the sides of the walls, take out the strainer and pour soda water down to cleanse the pipe, running a swab, tied to the end of a piece of whalebone, up and down the pipe to free it from slime. Wash the drip pan also very thoroughly, dry the racks in the sun and leave the refrigerator door open to dry and air it inside.

THE NEW WOMAN.

ANY women, like Peter Ibbetson, "dream true." More than would own to it have visions more or less prophetic. It is certainly now a time when the human nervous system is developing so that it will be able to catch far finer sounds, far more delicate sight impressions, than the average civilized person is at present able to do. This power is a lost one which animals and to some extent primitive man retain. Women have with their keen nerves the frequent gift of clairaudience and clairvoyance. Several ladies I know receive positive intelligence and inspiration from sources imperceptible to the common outward senses. Sometimes impressions come as astral pictures—again as soundless voices. There is nothing supernatural about it; only a more finely attuned nerve system that catches impressions unperceived before. The real help of these impressions is not, however, the vulgar one of aiding us to gain our coarse and crude material aims, like getting rich or winning a husband. One who depends on the vision for things like this will be led astray by her own foolish auto-suggestion. The real help is spiritual and mental. For this vision can be trusted every time. A few mornings ago one of the women I mentioned waked from a sound, sweet sleep and at the moment of doing so perceived some words. To save her life she could not distinguish whether she herself said them or whether something said them to her. It was probably what is called her subconscious mind that spoke the words. They seemed to come as the close of an oration or message of some kind; but whatever the source they lingered with her all through the day and many days after that like a sweet perfume. The words were: "Be strong, be true, be steadfast." A cumulative emphasis was laid on each adjective, and steadfast came last, as though to be steadfast was the summing up of it all. Perhaps it is.

A little girl named Violet, eleven years old, thought to surprise her mother by some fine needlework she had learned from a small schoolmate. She had done some very delicate hem-stitching, I think they call it; at least it was that kind where you draw threads out of a thing at the bottom of a hem and then further make holes in it by means of a thread and needle so that a line around the hem will tear and wear out sooner than the rest of the article. I suppose that is what it is done for. This little girl took the utmost pains with a specimen of the time and labor wasting work, then carried it to her mother, expecting high praise. But her mother said: "Violet, throw away that stuff, and never do you touch any of it again. I won't have you ruining your eyesight in that way." Sensible mother! Fortunate Violet to have such a mother!

I wonder why American college girls do not take to special scientific study. They have more opportunity and greater advantages than any other women, yet so far they seem content with achieving a high standing in scholarship, the mere committing to memory what other people learned before them without making original research for themselves. That is what the true lover of science does in any department. It is not to the credit of American women that the greatest mathematician of their sex, Mary Somerville, was British; that the woman-chemist who has shown herself to possess one of the great brains of her century, Mme. Curie, is a Polish woman resident in Paris. What are our women students about in the United States?

Gourley, M. P., of Nova Scotia, in the Canadian parliament squeals defiance at the American eagle, says, so it is reported, that he detests the very existence of the United States and says further his loyalist ancestors would rise from their graves should he speak a good word for the Union. There, there, Gourley, M. P.! Don't be too hard on us. Think how a merciful Providence raised up the United States on purpose to keep the British aristocracy out of the poorhouse! Think how it would have to come down and work for its living if Yankee girls did not buy its young fellows for husbands!



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PROOF POSITIVE

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An excess of bone forming materials is injurious rather than beneficial, especially to the male birds.

Hens kept in confinement and not given a variety of food are very apt to lay eggs inferior in food value.

According to a prominent fashion magazine, the new season's gowns seen in the various importing houses continue to prove the indispensable quality of braids for binding. It seems that stylish gowns cannot be properly finished without the essential finish which is imparted only by the clever use of mohair braid; for no other material will give that stylish hang to a skirt which lends it the air of distinction and truly Parisian elegance.

SHEEP DIP FOR CHICKEN LICE.

For destroying chicken lice, F. L. Emery of the Wyoming station recommends that the fowls be dipped in a solution of sheep dip. He estimates that 10 to 12 1/2 gallons will be sufficient for thirty to forty fowls. The plumage should be thoroughly soaked, and care exercised to prevent the solution from getting into the lungs of the fowls. Yards and buildings should be sprayed with the same preparation. Mr. Emery's directions seem a little unsafe, since sheep dip differs greatly in composition. Those which contain the different oils of petroleum origin are liable to do serious injury to the plumage and skin. Most of the dipping preparations should first be tried very cautiously. Aside from the proper ar-

POULTRY.

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PRIZES AND PUBLIC SALES AT THE FAIR.

F. D. Coburn, chief of the Department of Live Stock of the Louisiana Purchase Exposition, has arranged for a total of over 26,000 prizes in the classifications for horses, cattle, sheep, swine, poultry, etc., for the World's Fair shows next year. These are unprecedented in amount and are divided among twelve breeds of beef and dual purpose cattle with 2352 prizes, four breeds of dairy cattle, 560 prizes; nineteen breeds of horses, 3458 prizes; eleven breeds of swine, 2772 prizes; fourteen breeds of sheep, 2548 prizes; 375 varieties of poultry and pigeons, 10,300 prizes; fifty-seven breeds of dogs, 2604 prizes. There are thirty-two additional prizes for single cows and herds entered in the dairy demonstration, five for oxen, fifty-five for mules and 1310 for the estimated displays of pet stock, vehicles, etc.

Provision has been made for five cash prizes and two honorable mention awards in most sections except poultry. The final arrangements of the classifications may still further enlarge the numbers of prizes offered.

The general desire of the live stock breeders to have public sales made a feature of the live stock shows at the World's Fair has met with hearty approval by Chief Coburn, and the leading poultry fanciers have applied for dates for public sales during the poultry displays.

The Louisiana Purchase Exposition will be the first world's fair to provide for the holding of public sales of pure bred stock, which are assured of appreciative buyers and good prices. Complete plans have been made for a ring for public sales apart from the main live stock amphitheater, so that sales may be held without interfering with the judging or other features of the exhibition. Public sales of prize winners and other choicely bred animals have come to be a very attractive feature of fat stock shows and the leading state fairs, but no opportunity for this popular method of selling stock to the highest bidder has ever been offered at a world's fair.

The sales will be under the auspices of the breeders' associations interested and within the period in which the breed will be on exhibition. The following associations have already asked for assignments of sale dates:

Cattle—American Shorthorn Breeders' association, American Hereford Breeders' association, American Aberdeen-Angus Breeders' association, American Galloway Breeders' association; horses—American Percheron Horse Breeders' and Importers' association; swine—American Poland China Record company, National Duroc-Jersey Swine Breeders' association, American Berkshire association.

An entirely new departure decided upon as a leading feature of the live stock awards at the Louisiana Purchase Exposition is the premier or sweepstakes championships for each breed. These are intended as grand prizes to recognize both the skill of the breeder and the enterprise of the exhibitor. It is proposed to give a premier championship award to the breeder making the best showing in each class, the showing to be determined by the largest aggregate amount awarded to animals bred by the breeders represented in that class. The premier award to the exhibitor in each class will be made on the same basis.

The large amount to be offered for prizes and the consequent breadth of the classifications and the world-wide character of the shows will make the premier championships at St. Louis an exceptional honor, certain to be strongly competed for and highly appreciated by the exhibitors as well as breeders of the prize animals.

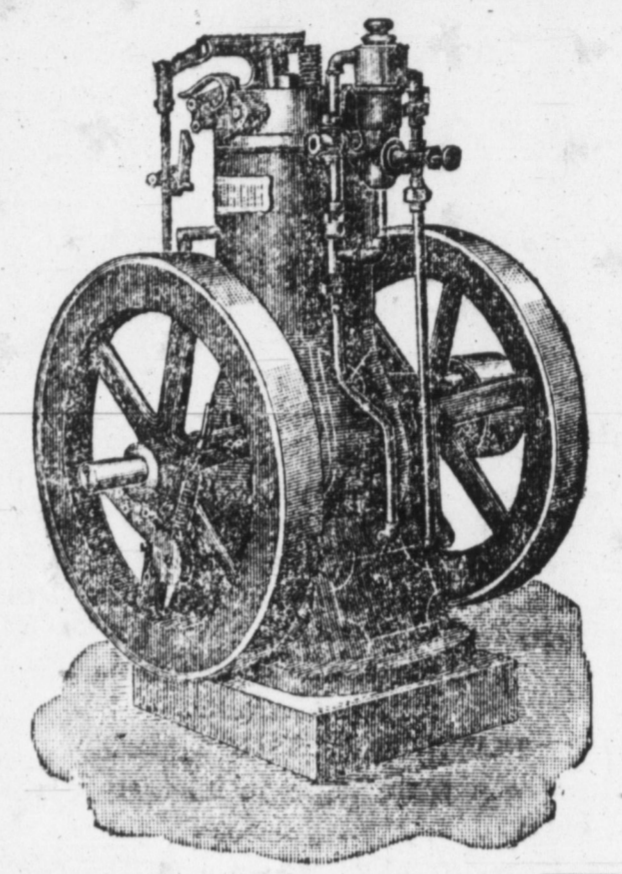
The Kansas Improved Stock Breeders' association has appointed a committee of three for each of the various breeds of live stock to work for a representative exhibit of Kansas live stock at the St. Louis World's Fair.

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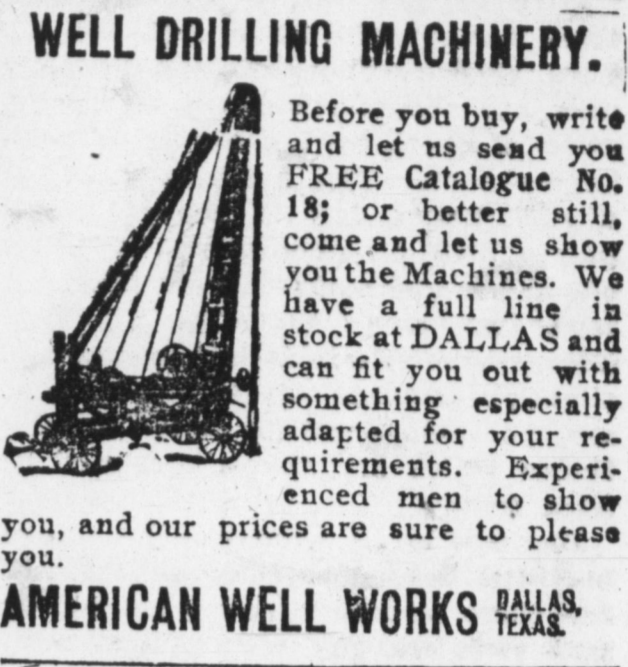
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THE HOUSEHOLD
ORGAN BUILDING.

In the United States a woman builder of church organs would be a great novelty. In England, however, such women are not so rare. The skilled worker in the craft gets \$10 a week, which is large wages for Great Britain. Here the pay would be much greater. Why American women have never tried it one cannot understand, for the work is not difficult. In England the organ builder's trade is apt to run in families and be handed down from father to son or, as in the



DECORATING THE PIPES.

case of Miss Wedlake, well known in London, from father to daughter. Mr. Wedlake was a famous British artificer of church organs. He had a large factory of his own. His daughter desired to learn his handicraft. He desired to have her do so. She could not be apprenticed regularly because, being a woman, the sky would have fallen had she been articulated like a boy. But, being a woman, she also had an eye, an ear, a touch and an adaptability to the work of organ building that not one boy in a thousand possesses. There was no law to prevent her learning the business as a rank outsider. Her father was a man liberal far beyond his time on the woman question. He himself taught her and took a fine pride in her progress.

Like a boy, she went into the factory and learned the trade from the ground up. It is a delicate, beautiful work, thoroughly healthful, artistic enough to be inspiring and satisfying.

Since she learned her trade Miss Wedlake has been constantly busy. She has the woman's natural quickness of eye, and long practice has made her accuracy absolutely unerring. Her work is chiefly the construction of bellows and the ornamentation of pipes. The blocks of wood for the bellows come already prepared. Then Miss Wedlake leathers and gussets them together. Pieces of white kid are cut exactly to fit and carefully adjusted to the wood by hand. There must be no looseness of execution here, for it would ruin all. In one of the large churches of London—St. Jude's, South Kensington—Miss Wedlake did all the leathering of the main bellows. In connection with organ bellows work Miss Wedlake's father invented and patented an ingenious piece of mechanism, which won him the medal at an exposition, but his daughter did the work of making the thing. She herself is inventive and has patented, among other devices, a stove that can be taken apart and cleaned and put together again by the most ignorant of women.

After she has constructed the bellows of her organ Miss Wedlake proceeds to decorate the pipes. In this department she rises to the artistic. She devises first a scheme of ornamentation suited to the subject. The theme is usually of an ecclesiastical or Biblical nature. Then she lays the figures deftly upon the pipes. Miss Wedlake's accomplishments, however, by no means

stop at bellows making and adjusting and pipe ornamentation. She can take to pieces any organ in the world, clean and repair it and set it up again bit by bit. Then she finishes by tuning it.

There is another department in organ construction which requires the most sensitive touch, ear and nerves that belong to human being. This is the "voicing" of the organ. Here, too, woman has excelled. Some years ago there was in England a family of organ builders named Abbey. A daughter of the house became the most skilled of the race in the family trade. This lady, Miss Abbey, chose France as the field of her labors. She went thither and settled and began building at once organs and a business. So skillful was she that in this particular task of voicing an organ she became the marvel of the Frenchmen who were in the same field.

An expert authority sets forth the following qualifications for the organ maker: "A delicate and sensitive musical ear, physique sufficiently strong to lift the less heavy pipes, some simple, cheap tools and about as much skill in their use as is required in very modest wood carving are the equipment necessary to start with in an organ builder's factory. The most difficult and highly paid branch of this industry is reed voicing, not the reeds of harmoniums, but of real organs. This is tedious to learn and takes years to master thoroughly."

MARY EDITH DAY.

EMPIRE RECEPTION ROOM.

Simplicity is the keynote of success in interior decoration. This is particularly noticeable in those rooms which are used for visitors, in which no household paraphernalia is allowed to be in evidence. Such rooms have an airy effect while they are at the same time cheerful.

In the picture we have an empire reception room which is tastefully decorated



WHITE AND PALE YELLOW ROOM.

ated in white and pale yellow. The ornate ceiling and the woodwork are white. Panels of yellow silk decorate the wall, and the lights are in the form of gilt candelabra shaded with pale yellow flowers.

The furniture is mahogany covered in yellow and pale old rose. Even the piano stool accentuates the empire idea.

A room of this description could be easily carried out in some of the inexpensive linen empire cretonnes now in vogue instead of the expensive damask or silk.

R. DE LA BAUME.

HOUSEHOLD BREVITIES.

Wash matting with soft water and salt only.

A little turpentine takes the grease off old furniture previous to repolishing.

To add a dash of black pepper to vanilla ice cream is one of the wrinkles of the cooks.

Cool water with a little borax or ammonia in it is preferable to soap and hot water on white paint.

Clean the clogged sewing machine first with gasoline liberally applied from an ordinary machine oil can, then oil as usual.

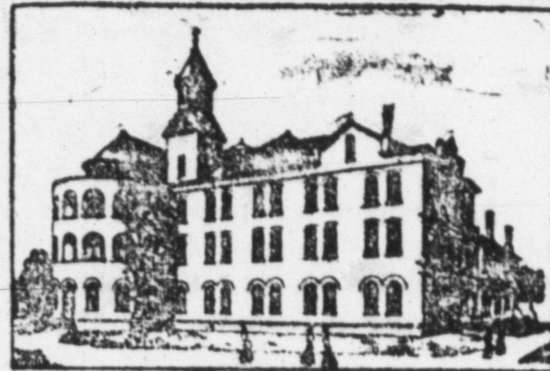
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WARTS ON SHOW CATTLE.

The removal of warts from cattle intended for the shows has been made a study by Prof. H. M. Cottrell, formerly of the Kansas agricultural college at Manhattan, who is now associated with the famous Odebolt farm in Iowa. Breeders who have exhibited in the past realize the importance of good appearance in determining the distribution of ribbons. These observations are very timely, in view of the near approach of the fall exhibits:

"We had much trouble with the pure-blood stock," says Prof. Cottrell, "and several successful methods were employed in removal of these growths. In order to experiment on taking off warts, a Red Poll heifer was selected on which the warts were so thick that it was impossible to place one's hand on her without coming in contact with several large growths. We tried two different ways on different parts of the animal's body. On her head and shoulders was applied castor oil—well rubbed in—twice daily for a week. Shortly after each application a portion of the wart would scuff off, and in two weeks the warts were entirely cured without any pain to the animal in any respect. On the back and hips of the same heifer we used concentrated acetic acid, applying it with a fountain-pen filler, and soaking the wart up thoroughly after applying grease around the root to keep the acid from eating the flesh. About twelve hours after the operation the warts could be pulled out easily. This was the quicker way, but it caused considerable pain and irritation, and is accompanied by some danger of the acid being dropped upon the skin and thus causing trouble."

THE KIND OF BEEF THAT SELLS.

The steer which is the most profitable in the market on the present demand for carcass stuff, says the Provisioner, is the fairly finished beast, whose interior is not padded and and whose hide is not cushioned out with fat. The meat of the finished steer is "food fit for the gods," but the average consumer does not care to render fat or buy a steak which contains a huge filler of suet. He wishes meat, and his wishes create the market demand for beef. It is seriously asserted by those who ought to know, that the flavored, highly fed beef is not so good as that of the naturally matured and comfortably filled carcass, nor is it as nourishing, there being more stearin than casein or albumen, and more insipidity than flavor in the former than in the latter viand. Let that be as it may, the present grade of good beef sells more readily and is more profitable to all concerned than is the meat of the highly finished prime beef steer. Medium grade beef is the kind which nature produces on the ranges and flavors with her grasses. The cottonseed meal and the corn man take it at this point and sweeten it. The hurried, forced growth and fat-stuffing process of the finisher produces a young, sappy flesh, which is largely devoid of that beefy flavor which the eater of beef desires. The medium finished carcass is not so costly to produce, hence it sells cheaper and better in the general market. For the special customer and the oleo-renderer the fancy prime steer is a necessity. The great army of meat consumers seek the other class of animal, and that is the trade which moves the stuff.

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WORLD'S FAIR STOCK NOTES.

Warner M. Van Norden, a prominent stock raiser and financier of New York, has written to Chief of Live Stock Coburn that he will probably make a large entry from his herd of Highland cattle at the World's Fair next year. Mr. Van Norden's cattle are now at his place at Rye, N. Y. With the exception of one steer shown at Chicago Highland cattle have not been on public exhibition in America, and the first display of any size of this attractive breed is promised for the World's Fair at St. Louis. Mr. Van Norden's herd is headed by a bull which twice has won first prize at the Highland and Agricultural Society Show in Scotland.

Live stock exhibitors in each breed class at the World's Fair will receive a senior champion prize and a junior champion prize for males and females, and a reserve champion award will follow in the four classes. Competition for the senior championships will be limited to mature animals, and young males and females only will compete for the junior champion prizes. Prospective exhibitors express themselves as highly pleased with the plan of Chief Coburn of providing for a more equitable method of awarding championship prizes and thus increasing the number of honors.

SALES AT ST. LOUIS.

Among the sales of quarantine cattle at St. Louis last week the following may be quoted as reflecting the tone of the market:

Shannon & A., Tulsa, I. T., 49 cows, av. 802 pounds, \$2.75; 1 cow, 1280, \$2.75. G. Ellis, Henrietta, Tex., 40 cows, av. 790, \$7.70. M. Pully, Henrietta, Tex., 1 bull, 940, \$2.40; 26 cows, av. 696, \$2.60. W. P. Forrester, Brookin, I. T., 61 cows, av. 660, \$2.40. C. F. Haglestein, Beggs, I. T., 66 cows, av. 706, \$2.40. T. M. Barnett, McCurtain, I. T., 6 calves, \$7.25. Schreiner & Hall, Pearsall, Tex., 46 steers, av. 1100, \$4.00. T. W. Glynn, Indian Territory, 49 steers, av. 1038, \$3.75; 12 steers, av. 930, \$3.30; 36 cows, av. 815, \$2.70. R. N. Nolan & Co., Holliday, Tex., 23 heifers, av. 563, \$2.60; 33 calves, \$6.00. R. S. Gowan, Bellevue, Tex., 27 steers, av. 854, 27 steers, av. 902, \$3.10. J. L. Ceell, Bellevue, Tex., 28 steers, av. 859, \$3.00. Nevil & P., Henrietta, Tex., 29 cows, av. 748, \$2.60. J. L. Huggins, Henrietta, Tex., 55 cows, av. 889, \$3.00. D. F. Sansom & Co., Alvarado, Tex., 21 cows, av. 889, \$2.80; 17 calves, \$5.50. F. M. San som & Co., Abbott, Tex., 48 steers, av. 990, \$4.00. S. H. Teal, Texas, 28 cows, av. 816, \$2.65. Harrold, East & Weaver, Alice, Tex., 285 cows, av. 668, 230 cows, av. 664, \$2.40. T. J. Smith, Minca, I. T., 24 steers, av. 812, \$3.40; 19 cows, av. 877, \$2.75. O. T. Allen, McCurtain, I. T., 35 cows, av. 638, 33 cows, av. 648, \$2.50. M. Houston, Bellevue, Tex., 27 steers, av. 918, \$3.00. S. Webb, Bellevue, Tex., 106 steers, av. 885, \$3.20. R. Hickey, Bellevue, Tex., 16 cows, av. 820, \$2.70. Cole & Hickey, Bellevue, Tex., 37 steers, av. 964, \$3.20. S. F. Cobb, Texas, 26 cows, av. 785, \$2.75. E. C. Leal, Byars, Tex., 42 steers, av. 860, \$3.00; 73 cows, av. 725, \$2.55. Shannon & B., Henrietta, I. T., 54 cows, av. 730, \$2.60. D. H. Williams, Tuttle, I. T., 47 steers, av. 952, 78 steers, av. 890, \$3.50. O. Perry, Tuttle, I. T., 69 steers, av. 996, \$3.45. W. L. Derden, Texas, 58 steers, av. 813, \$3.10. Houston & B., Gonzales, Tex., 26 cows, av. 802, \$2.60. W. J. Bacon, Colbert, I. T., 25 cows, av. 612, \$2.40; 20 steers, av. 748, \$2.75. J. H. Winters, Colbert, I. T., 23 cows, av. 802, \$2.60; 26 cows, av. 633, \$2.50. Davis Bros., Scullin, I. T., 108 steers, av. 941, 107 steers, av. 919, 55 steers, av. 901, \$3.25. J. D. Orton, Bellevue, Tex., 26 steers, av. 830, \$3.85; 25 cows, av. 758, \$2.85. P. Webb, Bellevue, Karnes City, Tex., 53 steers, av. 877, \$3.35; 52 steers, av. 796, \$3.10. S. Lippencott, Bellevue, Tex., 30 cows, av. 666, \$2.45. F. M. Barnett, McCurtain, I. T., 36 yearlings, av. 428, \$1.75. C. F. Haglestein, Beggs, I. T., 46 cows, av. 572, \$2.30.

SALES AT KANSAS CITY.

Some sales in quarantine division at Kansas City last week were as follows: A. Thompson, Elgin, Kans., 17 steers, 1022 pounds average, at \$3.75; J. T. Carr, Texas, 74 steers, 923, \$3.50; J. Florence, Indian Territory, 74 steers, 931, \$3.75; J. Florence, Indian Territory, 26 steers, 939, \$3.38; J. Florence, Indian Territory, 28 cows, 770, \$2.66; J. Florence, Indian Territory, 77 calves, 200, \$4.10; B. F. Linsey, Indian Territory, 42 cows, 667, \$2.80; G. O. Walthead, Oklahoma, 31 cows, 837, \$2.70; G. R. Beeler, Indian Territory, 45 cows, 767, \$2.65; C. C. Lee, Elgin, Kans., 52 Kans., 76 cows, 823, \$2.75; C. C. Coates, Elgin, Kans., 198 cows, 636, \$2.90; A. B. Edwards, Texas, 63 calves, 143, \$4.00; Silberstein & Stein, Lawton, Ok., 135 steers, 1298, \$3.80; G. E. Casey, Ballinger, Tex., 123 steers, 1075, \$3.80; C. M. Grant, Wynnewood, I. T., 50 cows, 848, \$2.65; C. M. Grant, Wynnewood, I. T., 10 cows, 760, \$2.65; C. M. Grant, Wynnewood, I. T., 69 calves, 185, \$3.85; E. C. Heath, Ardmore, 40 calves, 170, \$4.25; E. C. Heath, Ardmore, 24 cows, 804, \$2.60; Y. Landrum, Ardmore, 145 cows, 731, \$2.40; B. F.

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Smith, Chickasha, 69 steers, 1040, \$3.55; J. H. Warrin, Chickasha, 53 steers, 573, \$3.25; J. H. Warrin, Chickasha, 22 steers, 1000, \$3.25; Burton, Indian Territory, 107 steers, 1050, \$3.48; Hansley & Brumitt, Addington, 47 calves, 137, \$4.10; Hansley & Brumitt, 97 cows, 676, \$2.75; Hansley & Brumitt, Addington, 46 steers, 956, \$3.20. Ed F. Mann, Chickasha, 83 cows, 7466, \$2.50. Geo. W. Drake, Newoka, I. T., 19 cows, 777, \$2.40. M. Burdens, Scullin, I. T., 22 cows, 816, \$2.30. M. L. Trout, Scullin, I. T., 59 cows, 813, \$2.45. L. Mathews, Scullin, I. T., 16 cows, 720, \$2.25. M. Karrar, Buris, I. T., 27 steers, 927, \$2.25. M. S. Koch, Buris, I. T., 29 cows, 903, \$3. A. Johnson, Beruyan, 29 cows, 805, \$2.45. W. H. Eddleman, Parsons, Tex., 24 steers, 1015, \$3.75. T. Lachorn, Byers, I. T., 28 steers, 966, \$3.50. J. A. Felty, Myra, Tex., 26 steers, 926, \$3.25. T. McCorley, Lindsay, I. T., 31 cows, 786, \$2.65. J. H. Graham, Lindsay, I. T., 31 cows, 820, \$2.65. J. H. Graham, Lindsay, I. T., 38 cows, 625, \$2.50. S. S. Walker, Bedrock, Okla., 24 cows, 802, \$2.65. T. McCorley, Lindsay, I. T., 72 calves, 171, \$4.15. Ben Hampton, I. T., 20 calves, 180, \$4.25; Ben Hampton, I. T., 44 calves, 291, \$2.75. L. V. Kayser, Spire, I. T., 56 steers, 938, \$3.25. V. H. Adair, Adair, I. T., 25 cows, 758, \$2.25; V. R. Adair, Adair, I. T., 8 calves, 211, \$4.

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ATTENTION, JOURNAL READERS!

Do Not Delay in Forwarding Your Estimates of the Attendance at the Texas State Fair in Dallas—Remember That the Early Guessers Possess a Distinct Advantage.

Acting on the theory that the early bird is most likely to capture the worm, the shrewd ones have been losing no time in forwarding to the office of the Journal their best estimates as to the total attendance at the Texas State Fair in Dallas next fall. They realize, and rightly so, that it should not be a difficult matter for a person of average mathematical ability to get pretty close to the actual attendance, in view of the figures which the Journal has presented to its readers from time to time, coupled with the estimate of Capt. Sydney Smith, the general manager, and other officials of the exposition. It should be borne continuously in mind that the FIRST correct guess will secure the most valuable premium, hence those who do not delay in filling out the blanks below and sending them in, accompanied by sufficient cash to pay for renewals or new subscriptions, will stand relatively the best chances of securing the valuable premiums, which will positively be distributed among the lucky ones as soon after the State Fair is over as the official totals can be obtained. Every person sending \$1 for a new subscription or renewal is entitled to FOUR GUESSES. Every dollar paid by subscribers who are in arrears will entitle the sender to FOUR GUESSES for each dollar paid, provided a sum is sent large enough to cover the entire indebtedness and extend the subscription one year from date of remittance. Should no absolutely correct estimate be sent, the nearest to it FIRST RECEIVED will secure the \$500 piano. Thus, it will be seen, that by the rules of the gift distribution, as formulated several weeks ago, and which will be strictly adhered to, friends of the Journal who act without delay will enjoy a distinct advantage over those who keep putting off action until the morrow. There is no time like the present. It can now be put down as a certainty that Texas will enjoy GOOD CROPS and PROSPERITY this fall. All danger from drouth is now over, and nothing short of an earthquake or a cyclone can keep the farmers and stockmen of the state from carrying fat pocketbooks. Inasmuch as history has never recorded a volcanic eruption in this part of the country, and for the reason that the damages resulting from storms are usually of a local character, it can be seen that the fair attendance is quite certain to be ABOVE, rather than BELOW, the average.

Now, read these figures over carefully. They are certain to convey to the reader a comprehensive understanding of what HAS BEEN in the past, and what is QUITE CERTAIN to occur in the future. Study them closely, then send in four intelligent guesses, accompanied by any amount due the Journal, or a renewal, which will be promptly credited:

In 1898, 16 days' Fair, total attendance 188,080, an average of 11,755 daily.

In 1899, 21 days' Fair, total attendance, 274,416, an average of 13,067 daily.

In 1900, 16 days' Fair, total attendance, 279,592, an average of 14,034 daily.

In 1901, 16 days' Fair, total attendance 224,540, an average of 14,034 daily.

In 1902, 16 days' Fair, total attendance 157,884, an average of 9,240 daily.

1900, you will note, was our big crop year, 10-cent cotton and a big attendance; 1902 you will note small attendance—drouth and poor crops.

It figures a daily average for the past five (5) years of 13,168, and 16 days' Fair would make an attendance of 16 times 13,168, which equals 210,688.

It looks easy, doesn't it? As a matter of fact, the problem is by no means a difficult one, as the procrastinators may discover when it is too late.

There is not a gift offered in the Journal's unparalleled distribution, which any farmer, stockman or housewife should not feel proud to own. The piano, made and guaranteed by the popular Jesse French Piano and Organ company of Dallas, is a superb instrument, both in tone and finish—one which would grace the drawing room of a mansion. The regular price of this piano is \$500, and sales are made at that figure every day. Just think of it! FIVE HUNDRED DOLLARS, which will be easily earned by some one. WHY NOT YOU?

Failing to win the piano, the esti-

mator still stands an excellent chance to secure the superb \$100 charter Oak steel range, offered as a special gift for the most correct estimate received in July. For August the special gift for best correct or nearest estimate will be a \$250 gasoline engine—one of the best on the market—made by the White-Blakeslee Manufacturing company of Birmingham, Ala. The manifold uses of "power" on the farm or ranch are so numerous that comment is unnecessary.

The second correct guess received, or the one next nearest to the actual attendance, will secure a \$60 scholarship for a young man in the Fort Worth business college; the third, a \$60 scholarship for a young lady in the Landon Conservatory of Music at Dallas; the third, fourth and fifth, round-trip tickets to St. Louis during the great Louisiana Purchase Exposition; the sixth to tenth, Journal sewing machines, noted for their beauty, durability and light running qualities. The five next in order will each receive a fifty-six-piece decorated china tea set, while ten Stevens rifles—light, safe and handsome—will be distributed among those whose estimates follow in order of correctness. The next ten awards will be watches valued at \$5 each, with guaranteed movements and dust proof cases. To 500 others whose estimates are "within range" the Journal will be sent for one year, or those that are already subscribers, will have their accounts extended. Was such a liberal offer ever heretofore made by a periodical in the Southwest?

Fill out the attached bank and send them in at once to the Stock and Farm

Journal Company's office at Fort Worth, Tex., if you wish to participate.

My guesses are:
1
2
3
4
Name
Town
State

OATS IN TARRANT COUNTY.

A record for growing oats in Tarrant county has been made by J. B. Doty, superintendent of the Alta Vista farm, six miles northeast of Fort Worth. He sowed fourteen bushels of the Tennessee winter variety on fifteen acres of land, and has just threshed 1234 bushels as the net crop, an average of eighty-two bushels to the acre.

FAIR AT TAYLOR.

The twenty-second annual exhibition of the Taylor Fair was held last week under favorable conditions. Owing to the rainy weather of two weeks ago a postponement had been necessary. This year the live stock exhibits were very complete and creditable. Williamson county breeders vying with each other in their efforts to make a representative display. Horse races were among the attractions on the second and third days. The fair closed with a sham battle by visiting militia companies.

RICE CANAL ENTERPRISE.

Although sales of immense tracts of real estate in Texas have come to be of almost daily occurrence, the sale of a tract containing 10,000 acres of land in the coast country, and the organization of a company backed by \$300,000, is worthy of note. The sale of the land has been made and the enlisting of the funds to back the company has been made.

The new company will be chartered under the name, "Southern Rice Plantation company." The stockholders of this company are composed largely of Indiana people, who have made thorough investigation through their representative, Mr. W. H. Spang of Terre

Haute, Ind., and concluded that the opportunities offered for rice investments are sufficiently inviting to cause them to go this distance from home to place their money.

The organizers of the company are among the strong business men of Indiana, and the Texas parties interested in the development of this enterprise are W. C. Moore & Co. of Houston, which firm is placing the 10,000 acres to the Indiana organization.

POULTRY ASSOCIATION.

The poultry fanciers of Tom Green county met in San Angelo recently and organized a poultry raisers' association with a membership of thirty-five. J. B. Taylor was elected president, J. C. Skaggs vice president and F. E. Allen secretary.

A committee composed of W. T. Bishop, Silas Keeton and F. Blanchard was appointed to draft rules and regulations.

The name adopted for the association is the Tom Green County Poultry Association. The next meeting will be held on July 20, which time the membership will likely be augmented.

There will be a meeting of the Blum Poultry association on the 25th of this month at Blum, Tex., when the following subjects will be discussed:

"My favorite breed and why," "My experience in raising little chicks," "The value of the thoroughbred on the farm," "The Leghorn as an all purpose fowl," and "Pests and their extermination."

A two days' poultry show is being planned and will be held in November

GOOD ROADS ARE POPULAR.

That the good roads movement is as popular in South Texas as in the northern part of the state is shown by the figures of an election in Matagorda county last week to determine whether or not there should be a bond issue of \$60,000 to defray the expenses of proposed highway and bridge improvements. There were 264 votes cast in favor of the proposition and only 81 against it—a majority of considerably more than 3 to 1.

But for the failure of the commissioners' court to apportion the proceeds of these bonds to the several precincts the vote would probably have been unanimous.

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