

TEXAS IRRIGATION CONVENTION.

SOME TWO HUNDRED DELEGATES AT SAN ANTONIO.

Addresses on Water Supply, the Artesian Basin and Other Subjects by Professor Dumble, Gen. Clarke of Fort Worth and Prof. Schals.

San Antonio, Tex., Dec. 4.—About 200 delegates were in attendance when the state irrigation convention was called to order by Gen. J. H. McLeary of this city.

After a speech of welcome Gen. F. M. Clarke of Fort Worth was elected temporary chairman and Edwin Chamberlain of San Antonio secretary.

Prof. Dumble described the artesian basin, the benefit of irrigation and the feasibility of diverting flowing streams for this purpose.

He said only a small number of acres could be irrigated by artesian water. Gen. Clarke then proposed the convention on irrigation, and urged the passage of laws by the legislature for reclaiming the arid region of the state.

The state is to be congratulated upon the assembling of this convention. It is a tangible evidence that the people of Texas are awake to the situation, and imbued with the high spirit of state pride and love for the old commonwealth.

In addressing you upon the subject which forms the matter of our deliberations, there is fortunately no need of reviewing the historical portion of it. Interesting as would be a study of the ancient systems, tracing the successive steps of development which reclaimed the arid deserts and converted the sandy plains of the old continents into fruitful fields, we do not require such object lessons.

The value of irrigation. The United States has made more reliable and more useful history regarding applied irrigation than can be learned from the most careful study of all the long years elapsed from the time of the first irrigation scheme of the time of Noah down to 1880.

Utah has been called the "Cradle of American Irrigation." When the little band of Mormon pioneers, fifty years ago took out their first little irrigating ditch, they built far better than they knew.

Learned agriculturist, told the Mormon leader that he would pay a \$10 gold piece for every ear of corn that could be raised in the arid valley by irrigation. That was the beginning of what subsequently led up to the present scientific methods.

Today, establishing a dispute, that with proper irrigation the success of crops is absolutely assured. Lands in Utah, in California, in Colorado, in a score of the western states, which, under the climatic conditions, dependent upon the arid conditions, would not return to the farmer the seed he planted, have under the intelligent application of irrigation become the garden spots of the west.

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ment. Every acre of public land in Texas belongs to the state. It was but natural, therefore, that the government surveys should be confined to those states in which are located the best lands. It is extremely doubtful if any more government surveys will be made, for many years to come. The destinies, public lands taken. There is now remaining of the public domain about 600,000,000 acres, all of which is mountainous or semi-arid. This body of unproductive territory has now become a very huge "white elephant" on the hands of the general government, and it is not probable that it will be sold or given away.

Our state today contains about forty million acres of available public lands of a vast area of private land, nearly all of which will require irrigation to fit it for successful agriculture. That the greater portion of it can be successfully irrigated is a question of time. My reputation as an irrigation engineer of many years practical experience. There is no good reason why the West should not have irrigation, producing year after year without interruption as splendid crops as can be raised in any other part of the globe. It is the labor of this first Texas Irrigation Convention to shape the ends of such a grand and glorious work.

To accomplish so desirable a condition, we must be possessed of certain essential information, which we do not now possess, but which is very readily obtainable.

There should be made at once a survey of that portion of the state where the rainfall is less than twenty-two inches per annum, that amount being required to successfully conduct the operations of agriculture. This survey should ascertain the following data:

1. The extent and boundaries of the catchment and drainage areas of all watercourses within or leading into said territory.

2. The discharge or flow of all streams flowing within the limits of said territory, giving the maximum and minimum discharges of each stream, expressed in cubic feet per second of time.

3. The gradient of each stream, expressed in near feet per mile of stream length.

4. The gradient of the country through which such streams flow, expressed in feet per mile, and the direction of the slope.

5. The presence of underground flow and sheet waters.

6. The location of the office of state hydraulic engineer and the appointment of a proper and competent person thereto.

7. The organization of a state irrigation commission, the appointment of such officer to be governed by professional fitness and integrity and political expediency, and the weight in the making of such appointments.

8. The passage at the earliest possible moment of an act prescribing regulations for the appropriation, distribution and use of water for the construction and maintenance of works of irrigation, the defining of water rights and priorities of appropriation, and all other matters that pertain to irrigation.

At first thought this may seem to be asking a great deal; but in comparison with the benefits to be derived it is but little. The revenue to the state, in the shape of taxes from improved and cultivated farms, and the increased production of stock, would more than pay every dollar of outlay that could be expended in making the necessary surveys; while the enhancement in the value of individual holdings would be increased beyond the wildest dream of the most enthusiastic. This survey would also develop the untold other natural resources of the state, and the surface, and would add the hundred millions to the general wealth of the state.

The organization of the convention, let us approach this subject with an intelligent conception of the vast possibilities; let us discuss it with an eye single to the state's interest; let us arrive at a practical conclusion of the problem and then, guided with a high purpose, looking ahead to the benefit of every citizen, let us give our honest convictions, there is no fear but what respectable consideration will be given to our recommendations crystallized into just and effective legislation. Let us have in mind the purpose, and it will be said in future years that the irrigation laid the foundations of the greatest agricultural community of the world.

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out the legal obstructions that had been overcome by those who inaugurated the irrigation movement in the state of California and Colorado.

Following the reading of this paper there was a discussion of the question, "What are the best means and methods of irrigation?" The discussion was opened by Charles Curper, C. E., lands taken. There is now remaining of the public domain about 600,000,000 acres, all of which is mountainous or semi-arid. This body of unproductive territory has now become a very huge "white elephant" on the hands of the general government, and it is not probable that it will be sold or given away.

At the close of the session, the speaker stated that he had made a thorough investigation of the arid section of the state, secured the same in Texas where it crossed the different lines of railroad. He pointed out difficulties in the state where dams and reservoirs for the storage of water can be constructed for moderate cost and a water supply secured in that manner sufficient to irrigate vast areas of land. He stated that if the waters of the Rio Grande could be used in canals for irrigating purposes the entire valley of that stream could be converted into a veritable garden of Eden.

A number of other practical talks on the subject of building reservoirs, etc., were made, by the aid of which the convention that very little work in the way of establishing irrigation enterprises in the state can be successfully carried out. The speakers were unanimous in their opinion that the capital invested are adopted by the state legislature.

A plan for permanent organization was reported at the night session which will be discussed to-morrow.

ROSWELL AND THE PECOS VALLEY.

Stock and Farm Journal. In the midst of sunshine as bright as Italian skies ever furnished, and surrounded by a people full of enthusiasm at the bright prospects for property that now seems certain to come in the near future, I must say something about what I have observed in the Pecos valley.

Concerning the much written about depression of such a vast territory among the agricultural journals of the North, some of your readers will remember that for the past four years I have been in the habit of visiting the Pecos valley, and for the first time, yet in its swaddling clothes I did not (nor could I) see the signs of a depression. The valley would last long if the whole nation was prosperous. There is not a doubt in my mind but that in less than ten years the Pecos valley will be one of the great agricultural sections of the United States. If we do not produce it foreign countries will. The United States is capable of growing every bale of cotton, every bushel of wheat, every bushel of corn, every acre of alfalfa, while these articles were being printed the predictions were being carried out. For the twelve million bale crop which is now being raised in the Pecos valley, the only hope is to raise it cheaper. This can only be done by variety farming and a cash basis, or by a better system of raising cotton.

The farmer's life may not be rich in all those fancies of city life that the "faded mind contemplates with satisfaction" but it is rich in the satisfaction of a simple trade. The farmer is the man who, the staunch sinner of the great commercial sufferer. When the farmer suffers, the rest of the world must suffer. The farmer's life may not be rich in all those fancies of city life that the "faded mind contemplates with satisfaction" but it is rich in the satisfaction of a simple trade. The farmer is the man who, the staunch sinner of the great commercial sufferer. When the farmer suffers, the rest of the world must suffer. The farmer's life may not be rich in all those fancies of city life that the "faded mind contemplates with satisfaction" but it is rich in the satisfaction of a simple trade. The farmer is the man who, the staunch sinner of the great commercial sufferer. When the farmer suffers, the rest of the world must suffer.

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VARIETY FARMING.

Dear Sir:—I have had the pleasure of reading your article on "Variety Farming," and I am glad to see that you have written so many articles and spent more hard cash trying to bring about "variety farming" in the south than any other man in the south in the past ten years. The articles written on "Variety Farming" run up into the hundreds, the money spent, up in the thousands of dollars, and I am sure I have studied it from every standpoint. I have been behind the curtains with the merchants and in the fields with the farmers, and I have seen the results of the other fellow place. In fact it looks like I have tasted every sweet and every bitter connected with the subject in hand. In the year of 1889, my brother, H. W. Welborn, and myself, cleared six thousand dollars on a five thousand dollar capital on cotton and cotton seed. While our hog and hominy crop was being raised, we were about the same proportion. Every farmer who planted anything else to sell besides cotton, wished it were in cotton. The cotton crop was being raised to market. A beef steer or pork hog would hardly pay their freight to Chicago. I received more orders for cotton seed than I could supply. I received more orders for corn, peas, peanuts and potato seed combined from all quarters. In the winter of 1889 and summer of 1890, the cotton and hominy crop was raised, and the provisions was equally as great as the present stew and hurrah over the production of cotton. I was called upon to visit the small country towns, and the Rural Home of Rochester, N. Y. Here was the beginning:

Concerning the much written about depression of such a vast territory among the agricultural journals of the North, some of your readers will remember that for the past four years I have been in the habit of visiting the Pecos valley, and for the first time, yet in its swaddling clothes I did not (nor could I) see the signs of a depression. The valley would last long if the whole nation was prosperous. There is not a doubt in my mind but that in less than ten years the Pecos valley will be one of the great agricultural sections of the United States. If we do not produce it foreign countries will. The United States is capable of growing every bale of cotton, every bushel of wheat, every bushel of corn, every acre of alfalfa, while these articles were being printed the predictions were being carried out. For the twelve million bale crop which is now being raised in the Pecos valley, the only hope is to raise it cheaper. This can only be done by variety farming and a cash basis, or by a better system of raising cotton.

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CATTLE.

The number of cattle being fed in Texas this winter is fully 40 per cent less than the number fed last winter.

Eight carloads of cattle were shipped Wednesday, part to New Orleans and part to St. Louis.

Stock water is getting scarce and some stock about here will suffer if not looked after.

Quite a number of cows and heifers in this vicinity have been taken sick recently, supposed to be caused from some poison weed cut and baled with it.

J. H. Blackaller of Uvalde, who has about 1500 head of cattle in his pastures, is very busy after them with a view of shipping them back to his ranch at Uvalde.

The Dawson News Era, describing a recent hunting expedition in which the editor participated, has this to say of Col. E. J. Williams and his ranch:

The ranch is about four miles south of Dawson and extends seven miles and west, six miles and north, and contains nearly 15,000 acres of the finest black land in the state.

The supreme court of Minnesota recently rendered a decision of decided interest to horsemen all over the country.

HORSES AND MULES.

Keep your harness soft and clean, particularly the inside of the collar and saddle, as the perspiration, if allowed to dry, will cause irritation and produce galls.

The Horse World says: Carelessly tying horses in the stables with nothing but ropes around their necks has been the cause of the death of enough horses to have paid for first-class country for all the horses in the country.

Along about this time of year the horse's hair gets long and somewhat ragged. This long hair gets dirty and keeps the skin dirty, not frequently carried and brushed out.

Take your horse into your confidence. Lead him to know that he is your partner—has an interest in your business and welfare.

Everybody's Shoes should be kept oiled with Vacuum Leather Oil.

respond and you may be sure, too, that he will carry out his duties as a partner.

Washington was one of the first men in this country to appreciate the virtue and graces of a mule.

"Docking horses' tails has clearly been provided for," says C. Hanson, president of the American Society for the Prevention of Cruelty to Animals in New York City.

In turning a horse out to pasture never forget to make him run away from you by striking him with the halter or bridle and yelling at him.

Every breeder of road horses should endeavor to breed as far as possible with a view to matching up good road teams.

When a horse becomes frightened, demoralized or otherwise rattled about something he encounters, but does not understand, a good way to quiet him down is simply to talk to him in a quiet, low voice.

The supreme court of Minnesota recently rendered a decision of decided interest to horsemen all over the country.

England's hay purchases from countries beyond her borders were 18,800 tons in August, against 34,416 during the corresponding month a year ago.

The grooming of horses is of only secondary importance to that of diet. Health is secured by keeping the skin pores open and this can only be obtained by the curycomb and the brush.

The proper nursing of sick horses requires only slightly less delicate attention than the nursing of sick men.

George F. Perkins of Cairo, Mo., asks the Practical Farmer if pigs kept on manure will make wholesome food, even if fed good grain.

manager, but have the comparative freedom of a rook's box. It is strange that most stable architects think any odd space in a dark corner, that cannot be well utilized to form stalls, is quite good enough for the horse.

Steep the nostrils by holding a pall of boiling water, with a piece of camphor about the size of a hen's egg in it, under the animal's nose.

Food for Sick Horses. F. T. McMahon, veterinary surgeon to the Chicago fire department, communicates a contented recipe for an article on the treatment of sick horses.

It is a safe plan, if you can feed the horse, to feed them as rapidly as possible and put them on the market just as soon as they are ready.

When a market is well supplied, the buyer is independent. He can then plan the purchase of any stock as he pleases.

Give the fattening hogs as great variety of food as possible. In this way you will keep their appetites open and their digestion good.

With the milo maize, cane heads and fodder, pumpkins, squashes, etc., that can be raised almost any year, here on the plains, a goodly number of hogs can be fattened.

The great objection to the business has been the failure of crops at times. The farmers here on the plains have long been raising corn growing states and it has been hard for them to realize the fact that cane heads and milo maize will take the place of corn.

It is not much consolation to those who have had horses stolen to be reminded that they should have locked the door before the theft was committed, but it may save others from loss to urge the necessity of precautionary measures.

There is no doubt that the breeding process which has developed the early maturing type of hog has been at the expense of flavor. The animals have been bred to run to the trot and to give due provision for the growth of bone and muscle.

George F. Perkins of Cairo, Mo., asks the Practical Farmer if pigs kept on manure will make wholesome food, even if fed good grain.

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Although that is a germ disease, germs bred in flesh, and the flesh and improper diet of the hog weaken his vitality so he can not ward off disease germs that would be harmless to a well kept animal.

Dr. Hathaway & Co. That is the testimony of patients who have taken treatment of those popular and progressive specialists, Dr. Hathaway & Co.

How to Cure Lumpy Jaw. You can positively cure your lumpy jaw with our Lumpy Jaw Cure.

When a market is well supplied, the buyer is independent. He can then plan the purchase of any stock as he pleases.

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STANDARD FOR THIRTY YEARS.

BUCHAN'S CRESYLIC OINTMENT.

Sure Death to Screw Worms and will Cure Foot Rot. It will quickly heal wounds and sores on cattle, horses and other animals.

Carbolic Soap Co. Manufacturers, New York City. H. J. LEE, President and Manager.

Texas Live Stock Commission Co. INCORPORATED. CAPITAL STOCK, \$100,000.

FOR THE SALE OF TEXAS CATTLE AND SHEEP ONLY. CHICAGO, KANSAS CITY, ST. LOUIS.

G. B. VAN NORMAN & CO., (SUCCESSORS TO THAYER BROS. & CO.) LIVE STOCK COMMISSION MERCHANTS.

HENRY MICHELL & BRO. LIVE STOCK COMMISSION MERCHANTS.

ALBERT MONTGOMERY, COMMISSION MERCHANT for the Sale of LIVE STOCK.

A. P. NORMAN, Commission Merchant for the Sale of Live Stock.

A. J. & F. W. SAUNDERS, COMMISSION MERCHANTS FOR THE SALE OF LIVE STOCK.

JOHN MUNFORD, Commission Merchant for the Sale and Forwarding of Live Stock.

HORSES SOLD AT AUCTION. On Tuesday, Wednesday and Thursday of each week.

HOTEL WORTH. MAIN STREET, FROM SEVENTH TO EIGHTH, FORT WORTH, TEX.

Newly and handsomely furnished and well appointed makes it second to none in the South.

W. P. HARDWICK, Proprietor.

BLAIR BROS., Fort Worth, Tex. FINE OLD WHISKIES.

People in the country can now buy Whiskies of us by the gallon at wholesale prices.

FARMERS HAVE THEIR WAY WHEN THEY WEIGH ON JOURNAL SCALES.

Because Journal Scales Are Always Correct.

A farmer needs an accurate and handy scale for weighing goods he buys and produce he sells.

The American Southdown Breeders' association at its meeting in Chicago during the World's Columbian Exposition, ordered that pedigrees emanating from these same parties should not be received for registry.

The Illinois state board of agriculture on November 24th ordered that for making fraudulent entries for Southdown sheep at the Fat Stock show, then being held in Chicago, Louis Newton, Wm. Newton and Mrs. Ann Newton of Pontiac, Mich., be barred from exhibition at fairs or shows held under the auspices of the board for a period of two years.

This scale is particularly adapted to the requirements of the housekeeper. It will soon save its cost as a detector.

No. 1 Journal Scale, 1-4 Oz. to 25 Pounds.

No. 2 Journal Scale, 1-4 Oz. to 250 Pounds.

This scale is equal in capacity to the regulation counter scales of the grocer.

It makes a good postage scale, too, and is as handy in the office as in the home.

Price on board cars at Ft. Worth, with one year's subscription to Journal, \$3.50.

Texas Stock and Farm Journal

PUBLISHED EVERY FRIDAY
The Stock Journal Publishing Co.
607 Main Street, Opposite Hotel Pickwick,
FORT WORTH, TEXAS.

SUBSCRIPTION, \$1.00 A YEAR

Entered at the Postoffice, Fort Worth, Tex., as second-class matter.

Subscribers, Attention!

Look at the address label on the Journal sent to you. The small square opposite your name shows the expiration of the time paid for.

If you find you are delinquent, please remit at once by postal note or money order, \$1 to pay for one year's subscription from the date named.

Subscribers who desire a change of address will please give both present and future postoffice.

Keep it in your mind that lumber and whingles are cheaper than hay and corn so far as protection against cold and rain is concerned.

Raising cattle on the ranges of Texas will be a business for many years to come, and the man who invests in thoroughbreds, adapted for the extra quality beef producing purposes, will be building very wisely.

The most recent report of the secretary of agriculture of the United States shows that 72.25 per cent of the exports of the United States were agricultural. Whether this indicates prosperity is a question for each to settle for himself.

The opening of the Nicaraguan canal under the control of the American government would mark the greatest era in the commercial history of the South since the rebellion.

While under the two unusual circumstances of pork being high and wheat extremely low, it has been found profitable this season to feed large quantities of wheat to hogs.

Congress met Monday. The senate held a short session and adjourned to Thursday. The house proceeded to organization and listened to the reading of the president's message, which was pretty much a cut and dried document.

In another column will be found an interesting article on transplanting from Southern Farm. It would be advantageous for every reader of the Journal to carefully absorb the truths contained therein.

The tendency of the times is in the direction of trying to find out what is naturally best adapted to a country as a crop. This is in contradistinction to the old idea of trying to bring to bear some unusual process in order to force a growth that was not natural to the climate and soil.

Boys would take more interest in farm affairs if their fathers would make them owners of some part of the farm stock, or even a part of the land.

EDITORIAL CORRESPONDENCE

The Cotton Palace, Cowboy's Day and the Irrigation Congress at San Antonio.

A surging throng of people, carriages and street cars, threatening to run over you at every hand, glittering electric arches across the streets and a general gala appearance everywhere, carried the conviction that some kind of a festival was on hand.

Cowboy's day was a "corker," the parade, the weather and the crowd, combining together to make the Cotton Palace directory, concessionaires, and in Waco, smile broad and deep.

Still sticking to the Katy the bigger part of the way, San Antonio, the quietest, widest open and biggest city in Texas was reached early Saturday morning.

It was Monday before any of the delegates to the irrigation congress arrived at which time about 200 were in the city, and when the convention was called to order in the new Y. M. C. A. building that many were in the hall.

The legislature of Oklahoma is wrestling with a bill, exempting all new manufacturing concerns from taxation for a term of ten years.

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In the matter of manufacturing cotton alone, the South offers pre-eminent advantages. To illustrate: The present price of cotton does not exceed four and a half cents.

OUT WITH THE GANG.

Breezy Things that the Moulders of Opinion are Thinking and Saying, and Some Back-Talk.

The Arlington Democrat wants wood, corn, feed, chickens, Christmas turkey and eggs, all on subscriptions. It urges its patrons to come along slowly and not run over each other in their haste to "stand and deliver."

That's a pretty good "later," but doesn't you agree to the Arkansas potato used to let the Arkansas potato grow in the Arkansas potato?

The Ballinger-Banner-Leader is pretty full of box car type ads, but has room enough to say: "Honesty would be a sweeter change in political affairs."

The Nocona Argus is feeling good. A big holiday edition is coming on nicely, and the local man-bubbles up: "Every citizen in Nocona is happy because the town is growing, and the outlook for the future is bright."

The Alvin Star wants to shine for his people. He says: "The town is growing, and the outlook for the future is bright."

What I desire to see done in the early years is sufficient stock raised in this section to bring these great money producing institutions to the South, so as to create better and more satisfactory resources for the creation of wealth at the South.

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OUR SEWING MACHINE.

A Bank President's Testimony to Its Worth.

Dear Sirs—Will say that I got the sewing machine and am well pleased with it. The machine gives perfect satisfaction in every respect.

Do not need to spend \$200 for a watch. A dollar and a half sent to the Stock Journal Publishing Co. will get you a watch that is guaranteed to keep good time.

For Sale or Exchange. The "Half Circle" ranch and cattle, on Duck Creek in Kent County, Texas; 100 sections fenced in five pastures.

For Sale. At Cleburne, Texas—a fine saddle stallion and standard-bred Jack. They are both extra fine animals.

For Sale. Choice helters, close up in blood to the "Little Big Cow" of the World's Fair.

For Sale. One hundred head of good, well-bred yearling and weaning milks. Also two Texas-raised, pure bred black jacks with white points.

OUR BOOK BULLETIN.

Excelsior Lumber Log Book and Revised Containing tables of Board, Shingles, Siding, etc.

Randall's Practical Shepherd. A work on the Fine Points of the Profession, including the Selection, Feeding, and Management of Sheep.

The Gunsmith's Manual. A complete work on the Art of the Gunsmith, including the Selection, Feeding, and Management of Sheep.

The Complete Carriage and Wagon Painter. A work of 200 pages, written by a practical Painter, and giving in plain language detailed instructions.

Frank Forester's Complete. Manual for young sportsmen of fowling, fishing, and sports.

Frank Forester's Field Sports. Embracing the game of North America, upland shooting, Bay shooting, wild sporting of the wilderness.

Frank Forester's American Dog. In his book, Frank Forester has described in our elegant 12mo volume, beautifully printed on laid tinted paper.

BREEDERS DIRECTORY.

J. D. CALDWELL, Brownwood, Texas. Breeder of Short Horn Cattle, Berkshire Hogs and Black Langshan Chickens.

Hereford Park Stock Farm. Hereford, Wis. County, Texas. Breeder and Importers of Pure Bred Hereford Cattle.

Blue Mound Blooded Stock Farm. J. W. BURGESS, Proprietor. FORT WORTH, TEXAS. BREEDER OF REGISTERED SHORT HORN CATTLE.

San Gabriel Stock Farm. D. H. & J. W. SNYDER, Props. GEORGETOWN, TEXAS. BREEDERS OF PURE BRED PERCHERONS AND FRENCH COACH STALLIONS.

Rock Quarry Herd. W. E. MOORE & SON, Salisbury, Mo., breeders of the choicest strains of Polaris, Standardbred, and other fine horses.

E. E. AXLINE, Breeder and Shipper of Thorough-Bred Poland Chinas. Of the best strains. Pigs for sale at reasonable prices.

75 Short Horn 75. I have for sale 20 pedigreed bull calves, my list of hands for sale and 25 high-grade yearlings.

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HOUSEHOLD.

SEND THEM TO BED WITH A KISS. O mothers, so weary, discouraged, worn out with care of the day...

The dear little feet wander often. Perhaps, from the pathway of right; The dear little hands find new mischief...

For some day their noise will not vex you. The silence will hurt you far more; You will long for their sweet, childish voices...

HOW TO FUMIGATE A ROOM. A room should be thoroughly fumigated after having been occupied by a patient having any of the serious contagious diseases...

RENOVATING OLD CLOTH. In ripping a garment that is to be used again be careful not to stretch the seams at the neck, especially at the arm-holes, neck, shoulder and underarm seams...

Woolens should never be wrung by twisting, as this but curbs and mats their fibers, thus assisting shrinkage...

AN AMERICAN WOMAN'S GROUNDS FOR THANKSGIVING. In common with my countrymen, I must this year place first in the list the fact we have but just now been celebrating...

THE SOUTHERN PACIFIC SETS THE PACE. Fastest on Record. 2-1-2 days to Los Angeles, Cal. 2-1-4 days to San Francisco, Cal.

BOILED WHEAT AS FOOD. "Now that wheat is so cheap it has been used for experiment with young chicks, and it has been found that wheat, when cracked, is one of the best foods that can be used...

DISSEASE IN WINTER. "As Leghorns have tall combs and long pendant wattles, they are much more liable to injury from severe cold than some other breeds, and in most cases the wattles are frozen before the combs are affected...

LEGHORN IN WINTER. "More disease is brought into flocks by purchasing fowls than from other causes, as but few are able to properly inform themselves of the condition of the purchased stock...

THE WHITE ELEPHANT RESTAURANT. 308 and 310 Main St. W. H. WARD, Prop. EVERYTHING IN SEASON The Only Complete Restaurant in the City.

DRUM SEED AND FLORAL CO., Fort Worth, Texas. Seeds, Bulbs, Plants, Shrubs and Trees, For Farm, Garden, Orchard and Lawn.

High Art Photos At Kreuger's. Sixth Street, between Main and Houston, Fort Worth.

THE WHITE ELEPHANT RESTAURANT, 308 and 310 Main St. W. H. WARD, Prop. EVERYTHING IN SEASON The Only Complete Restaurant in the City.

ONLY \$1.50 PER DOZEN For Cabinet - Size Photographs, Until Christmas, At DANIEL'S GALLERY, 610 Houston St., Ft. Worth. Guaranteed the Best.

BURTON P. EUBANK, ATTORNEY AT LAW. Practice in all Courts, State and Federal, - - Hurley Bldg., Ft. Worth, Tex.

Highest of all in Leavening Power.—Latest U. S. Gov't Report.

AK Baking Powder ABSOLUTELY PURE. Green bones are not used as extensively as they should be, because grain can be obtained with less difficulty...

POULTRY.

Green bones are not used as extensively as they should be, because grain can be obtained with less difficulty and at a low cost, but as producing material the bone is far superior...

From Mirror and Farmer we clip the following pertinent matter. Of course it must be taken into consideration that this matter was written for New Hampshire, but exactly what would be written for Texas:

"Feeding in winter is more puzzling and perplexing than any other duty. To feed eggs in winter is a perplexing and perplexing matter, and though the experienced poultryman may have but little difficulty, yet the novice makes great many mistakes...

"One of the reasons why careful and judicious feeding should be practiced in winter is that the hen will produce the proper conditions for laying. In the summer hens have plenty of exercise, green food, animal food and a variety of feeds...

"The first thing to do when bowel disease appears is to cease feeding, give no food for two days; then feeding lightly after that, as the case is not severe, and the bird will get over it in a few days...

"Now that wheat is so cheap it has been used for experiment with young chicks, and it has been found that wheat, when cracked, is one of the best foods that can be used, but it should be given with rolled oats or pinhead oatmeal, the first week. Boiled wheat for chicks has proved better than any other foods used...

"As Leghorns have tall combs and long pendant wattles, they are much more liable to injury from severe cold than some other breeds, and in most cases the wattles are frozen before the combs are affected, due to the fact that the wattles are in contact with the cold outer surface of the artificial egg...

"More disease is brought into flocks by purchasing fowls than from other causes, as but few are able to properly inform themselves of the condition of the purchased stock. Houp may be present in a neighbor's flock and not...

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"As Leghorns have tall combs and long pendant wattles, they are much more liable to injury from severe cold than some other breeds, and in most cases the wattles are frozen before the combs are affected, due to the fact that the wattles are in contact with the cold outer surface of the artificial egg...

"More disease is brought into flocks by purchasing fowls than from other causes, as but few are able to properly inform themselves of the condition of the purchased stock. Houp may be present in a neighbor's flock and not...

"The first thing to do when bowel disease appears is to cease feeding, give no food for two days; then feeding lightly after that, as the case is not severe, and the bird will get over it in a few days...

"Now that wheat is so cheap it has been used for experiment with young chicks, and it has been found that wheat, when cracked, is one of the best foods that can be used, but it should be given with rolled oats or pinhead oatmeal, the first week. Boiled wheat for chicks has proved better than any other foods used...

make its presence manifest, and where it has once appeared, even with but a few sick ones among the number, there is sure to arrive a time when it will spread. The ground becomes contaminated, the germs of the disease are communicated to all, a gradual development is resulting, and when the birds are bought and given a change of quarters the roup may appear...

SOME POULTRY SENSE. As we turn our thought backward we see only a few years back, the introduction of the hatchery (that is, practically), and how the talk did run about whether they would do the work with hatchery stock, and whether the chicks so hatched, and whether they would make as fine show birds as those hatched and reared by the hen...

ANOTHER MACHINE HEARD FROM. Palo Pinto, Tex., Nov. 28, 1894. Stock and Farm Journal, Fort Worth, Texas. Gentlemen: I received my machine on the 21st, and have tried it and am well pleased with it. I was much surprised when I saw the machine and saw how nicely it did its work. I regard it as good as any machine sold in this country...

HOLIDAY EXCURSIONS TO THE "OLD STATES." For the holiday excursions to the old states, the Cotton Belt Route will sell tickets December 20, 21 and 22, 1894, at one fare for the round-trip, limited good to return within thirty days from date of sale...

A Watch for \$1.50. That's just what we've got, and we warrant it to be all right and to run all right too. It is American made, quick and accurate, and a good time-keeper. A delay of ten minutes has cost many a thousand times the price of one of these watches...

OUR NEW CATALOGUE OF THE LATEST ORGANS AND PIANOS IS A VERITABLE WORK OF ART, WITH LITHOGRAPH COVERS AND HANDSOME, ACCURATE ILLUSTRATIONS. It not only costs you nothing, but it will pay you well to see it, by showing you how you can buy the renowned...

DRUM SEED AND FLORAL CO., Fort Worth, Texas. Seeds, Bulbs, Plants, Shrubs and Trees, For Farm, Garden, Orchard and Lawn.

High Art Photos At Kreuger's. Sixth Street, between Main and Houston, Fort Worth.

THE WHITE ELEPHANT RESTAURANT, 308 and 310 Main St. W. H. WARD, Prop. EVERYTHING IN SEASON The Only Complete Restaurant in the City.

ONLY \$1.50 PER DOZEN For Cabinet - Size Photographs, Until Christmas, At DANIEL'S GALLERY, 610 Houston St., Ft. Worth. Guaranteed the Best.

BURTON P. EUBANK, ATTORNEY AT LAW. Practice in all Courts, State and Federal, - - Hurley Bldg., Ft. Worth, Tex.

It is this for something more profitable. Hundreds of these same farmers and gardeners are sneaking into the business upon the pretext that their wives want to try a few thoroughbred, but they don't take much stock in the venture themselves, and after a year or two of experience with their better half in the foreground, they wheel into line in great shape...

THE POULTRY EXHIBITION IS A GREAT EDUCATOR, not only for the poultryman, but for the masses. Each section of country that supports such a show reaps its reward in the increased number of thoroughbred fowls kept, and as a result better supply of eggs and fowls of a superior quality for the market...

CAUTION—Buy only Dr. Isaac Thompson's eye water. Carefully examine the outside wrapper. None other genuine.

Dr. Gies' Infalible Remedies! Of world-wide fame. For Self-Cure of Venereal Diseases; absolutely void of Mercury. Specific No. 1, for Gonorrhoea; Specific No. 2, for Soft Chancres, Hard Chancres and Syphilis. Price for each, 25 cents per bottle. Specific No. 3, for the blood, to be taken in connection with Nos. 1 and 2; price, 50 cents. For Gonorrhoea, send for Nos. 1 and 2; for Soft and Hard Chancres or Syphilis send for Nos. 2 and 3. We will guarantee an absolute cure. Special directions and all necessary paraphernalia accompany each remedy. Send money by express or postoffice order. Give nearest express office.

INFALLIBLE REMEDY CO., Fort Worth, Tex.

FORT WORTH Business College. Now in its sixteenth year. Is the only school in Texas that teaches business by doing business. A full course of Telegraphy free. No charges for night school. For elegant catalogue and specimen of penmanship free, write to F. P. PREUITT, Pres., Fort Worth, Tex.

Hills Business College. Universally acknowledged as one of the best, most practical and complete Business Colleges in the United States. It has no equal in the South. Equipped at a cost of about \$100,000, and has five times more capital to sustain it than all other similar schools in the State combined. Four banks in use. Best Faculty money can secure. Five hundred students the past year from fourteen States. The student transacts business the same as the real merchant and banker. Twenty-one gold medals and premiums from Texas, and other State fairs. Address R. H. HILL, President, Waco, Tex.

Galveston Business University. Absolutely thorough business taught by doing business. The only Business College in America that allows its students to pay expenses monthly at lowest terms rates. Most delightful climate on earth. Send for beautiful prospectus free. Our rates and offers will surprise you. J. F. SMITH, Principal and Founder.

ECLIPSE LIVERY, SALE AND BOARDING STABLES. Corner Fourth and Throckmorton streets, Fort Worth, Tex. We have an exceptionally fine lot of livery horses and buggies. Always keep on hand a few choice roadsters for sale. Give us a trial. Satisfaction guaranteed.

Tackaberry Bros., Proprietors. WOOD & EDWARDS, Hat Manufacturers and Repairers. No. 84 1/2 Main St., DALLAS, TEX. 5th, Derby and Boston hats cleaned, dyed, stiffened and repaired equal to new. Orders by mail or express promptly attended.

IT IS EASY WHEN YOU KNOW HOW. Many things are done now that have heretofore been considered impossible, and such things as Lumpy Jaw in cattle is one of them. This is easily done when you have the proper remedy to do it with. ONSTAD'S LUMPY-JAW CAPSULES get right at the cause of the disease, and one application is sufficient to cure four ordinary cases. There is sufficient in each box to cure 40 ordinary cases. Price \$2 a box. Capsule insert 25c, sent postpaid on receipt of price. Write us for particulars. THE ONSTAD CHEMICAL CO., Box 2990, Sioux Falls, S. D.

DR. SMALL, Specialist. Cancer, Dropsy, Nervous Diseases, Scrofula, Skin Diseases, Bladder and Kidney Troubles, Female Complaints, Private Diseases, Cures, Treated Successfully. Thirty years experience. Hundreds of testimonials. All correspondence given prompt attention, and strictly confidential. Send for testimony of Cured. Office, No. 10, 513 Main street. Look Box 250, Fort Worth, Texas.

CATTLE FEEDING MACHINES. The best, most rapid, most powerful and most efficient feed cutter, corn crusher, specially made roller and root cutter ever invented. Cuts and crushes corn fodder with ears on or off. Crushes and cuts with shank on or off, hard or soft, wet or dry. Crushes finished corn of cotton seed—all faster than any machine made. We sell on trial. For free circular and location of nearest shipping place address our office.

PERSONAL BLOOD ROOT COMPOUND. Is nature's best blood purifier and blood builder. By causing pure, rich blood to flow through the entire system, it speedily cures Rheumatism, Neuralgia, Headache, General Debility, Dyspepsia and all nervous diseases. For weak kidneys and Bright's disease, best effect is obtained only by its use. It is used in making medicine. It is a pure and natural and never did or can make it equal. Sick people grow better from the first few doses. Weak and weary folks grow strong and healthy after taking single packages. \$1.00 per box. \$5.00 per dozen. Our agent will supply you, or address, THE KING CHEMICAL COMPANY, 231 State Street, CHICAGO, ILL.

DIXIE RELIABLE SEEDS. Awarded World's Columbian Grand Prize. Always Fresh. Always Pure. Always Guaranteed. SPECIAL OFFER: For only 10c, I will send 25c worth of seed. Liberal postage paid on New Holland Catalogue and New Little Watermelon. Beautiful Seed and Plant Catalogue FREE. Address: Dixon H. Dixie, 1012 North Main Street, Fort Worth, Texas.

PERSONAL.

C. C. High of Eastland, was here Wednesday.

Arch Gamel of Chickasha was here Monday and Tuesday.

William T. Eric of Quannah, the well-known banker and cattleman, was here Monday.

H. H. Pierce shipped eight cars of feeders to Italy, Tex., this week—Sweetwater Review.

Mr. W. W. Stovall, a cattleman of Holder, I. T., was in Fort Worth Friday last and was a pleasant caller at the Journal office.

John R. Holland, one of Brewster county's successful stockmen, is in Weatherford buying bulls to stock his ranch—Marfar Era.

John Franklin Russell of Ranger, a practical, typical Texas cowman, was here Monday. He says grass in his county is fine.

Frank M. Weaver, of this city, who has large cattle interests in Eastern Texas, arrived here Monday morning from Sulphur Springs.

Hon. C. V. Connelley of Eastland, cattleman, banker, politician and good citizen generally, spent a part of the week in the cattle center.

William Hittson and M. O. Lynn of Palo Pinto county, two of the best known old-time cattlemen, were here Tuesday and went south.

John Eardwell of Ennis was in Fort Worth Thursday last week, on his way home from West on the Texas and Pacific. He shipped a number of steers in to be fed.

Among the pleasant callers at the Journal office last week we would mention Mr. W. Woodley of Lebanon, I. T. He was in the city looking after some cattle business.

M. Sanson of Avarado was here yesterday. Mr. Sanson is feeding several thousand very fine steers. Says he has the best cattle he ever fed but is not very hopeful as to the market.

Thomas B. Lee of Chicago, president and manager of the Texas Live Stock commission company, and who is spending the winter in Chicago, came in from a business trip Sunday.

When the hogs go to market save out the best quality for the market. One has a better right to the top than the grower, yet he often retains the second rate because there is money in it.

Turnips grow in Texas as they will not grow anywhere else, and it is right here that the Journal wants to suggest that a good feed of turnips, tops and all, will be relished by the hogs beyond calculation.

J. E. Shoemaker started another herd of about 1000 head of Hereford cattle from Marathon Monday. They go to the J. M. ranch on the Pecos. About all of the Half cattle have been driven from this range—Alpine Avalanche.

Col. Larken Hearn, of Baird, came in from Southern Texas Monday morning. He never has much to say, but he always knows what is going on. It is needless to say that the colonel's trip to the coast county meant that some cattle changes hands.

In marketing hogs, especially in car lots, it pays to have them as nearly all the same in size and condition as possible. The price is better and they will be from ten to fifteen per cent better by simply observing this rule.

"Judge" J. W. Zook of this city, well known among Texas cattlemen, has recently returned to the city from a trip North. The "Judge" is now largely interested in what is going on in Old and New Mexico and Arizona, and will soon be among the high-flyers.

Stop a moment when you go to feed hogs and think whether you would find the feed you are giving them good for your health; if not, go at once and get them some decent food. It pays to be decent, even in the pig pen.

E. B. Carver of Henrietta, the Texas-Texas manager of Cassidy Bros. & Co., was here Monday. Says he thinks the outlook anything but encouraging.

Sam Culbrieth of Baird was among the many cattlemen who visited in the Fort this week.

The self-feeder is being tried by some for whole or ground wheat, and ground corn and wheat. They have one advantage over the old way of feeding whole grain, the animal gets clean food from a floor, and does not have to root it from the mud.

Mr. E. Y. Simmons, one of Eastland's most progressive citizens, was in the city Saturday, looking after some cattle business, and incidentally seeking information concerning the feasibility of bridging a large tract of land that is otherwise practically worthless to him.

L. W. Krake, the energetic representative of the National Stock yards, returned to his headquarters at this place Monday from a trip to the yards in East St. Louis. Says he is going to send all the feeders in the country to St. Louis, and the other markets won't be in it.

A swine grower says that the hog or other animal on a whole system is not fully fed in an easy and natural way. We have seen many an animal that was so fat that it could hardly walk and was yet starving. The bone and muscle was not fed—Arms Review.

Under "Cattle Shipments," the Alice, (Newcomer county). Reporter published the following: Wednesday—By R. L. Batte, three cars of bulls and stags to Cameron, Tex. Friday—By S. H. Hudson, two cars of cattle to St. Louis; by Wm. Shears, one car of horses and mules to New Orleans.

Did you ever stop to think that good winter quarters on the excessive cold days and nights along about this time of year was essential to winter pig? Well, it does as nothing else can do to keep Mr. Piggy warm, clean and well fed. O. yes, it pays to treat a hog like you treat yourself.

R. K. Haisel of Decatur was here Monday night on route to Chickasha, I. T., where he has a lot of feed and pasture he wants to dispose of. He was pleased at the rain we were at that time enjoying and hoped it would continue until the whole state had a thorough soaking. Mr. Haisel is feeding his usual quota of cattle this winter.

N. E. Pant, a well known cattleman of Goliad, Tex., passed through the city Thursday last week on his way south from up in the Kleopation, where he has a large number of cattle, and where he has been since last June. He says: Cattle are doing well in the nation now, as the grass is fine. I believe another year will show that there is a much greater shortage in cattle

than anybody supposes now. By the time the steers in the country find their way to the market, it will be found that there are very few coming on to take their place, and there will be a scramble for her cattle.

If a feeding floor cannot be had it is better to cover the feed lot with straw than to feed in the mud. If the feeding lot cannot be under cover it will be found a most excellent plan to have a break around it. Hogs are very sensitive to driving winds. They will suffer for hunger before they will stand in a driving gale to eat.

L. M. Barkley of this county, who has been identified with the cattle business of Texas all his life, and who has of late been one of the Cattle Raisers' association's valued inspectors, has accepted a position with Messrs. Geo. B. Loving & Son, live stock agents of this city, and will in future give his time and attention to the brokerage business in connection with the Messrs. Loving.

Wm. M. Shaw and Chas. Penner, two well-to-do farmers and cattle feeders, were in Fort Worth Wednesday. These gentlemen are planning to buy for 300 good steers, which they desire to feed on their Wichita farms. If Northwestern Texas had more such successful farmers as these, we would have more property and less talk about dull times.

Uncle Henry Stephens, who represents the Harse Commission company in this state, stopped off in Fort Worth Thursday last week on his way to San Antonio, where he makes headquarters. He says that wherever it is demonstrated to the cattlemen that there is going to be money in breeding, they will find plenty of cows, and he doesn't think there is any more of a shortage in the cattle than other kind.

George Simmons of Weatherford spent Saturday night in Fort Worth. He says he has been slipping around and has picked up about 2000 young steers. He finds plenty of cattle for sale, but he thinks there is more of a shortage in the cattle than other kind. There is no indication of a shortage, and the beef market would indicate that range cattle should sell even cheaper than they did last year.

To sow seeds is one thing. To sow good seeds is another. It is the desire to sow good seeds that is going on. Northern grown seeds seem to be in demand. H. W. Buckbee of the Hereford seed farms, Rockford, Ill., advertises that he has a variety of seeds best suited for the purpose. This firm enjoys an enviable reputation and orders entrusted to him will be rightly attended to. See their ad in another column of this week's issue.

Brooks Davis is again spending the winter in the cattle center of the South-west. He is quite homesick this winter, however. Last year Arthur Tisdale, Tom Montgomery and others held of him press brick, warm chairs and hold nightly meetings of the M. M. M. I. society, but now Brooks is all alone. However, he mixes around with the visitors and talks cows, markets and condition of the ranges, spins yarns, signs palms and manages to kill time.

Mr. R. C. Donaldson, one of Hill county's most intelligent and progressive stockmen, brought up a load of hogs last week to the market, and in a pleasant conversation stated that he considered the Journal the most useful paper to farm-ers. He was particularly pleased with the strong stand the Journal takes on diversified farming. He is a witness that it pays to diversify.

Special attention is called to the advertisement of "Half Circle 10" ranch in this issue. This ranch is most favorably situated, well fenced and sheltered. It has in it now some three thousand head of good stock. Good terms and low prices may be had by an immediate purchaser. Kent county is destined at no distant day to come to the front, as it is boundedly watered and naturally rich. Write to P. P. Clairmont, of Clairmont, or A. W. Hudson, Colorado, for full particulars.

Col. Jared W. Harbee, live stock agent of the Cotton Belt, went down to the Waco Cotton Palace Friday and participated in the cowboy parade. Jere drove a team of twenty men drawing a Cotton Belt car and they who saw it say that as a bull-whacker, he is hard to beat. There is nothing surprising in this, as Jere is hard to beat at anything. The Cotton Belt will put lots of feed cattle on the St. Louis and Chicago markets this season and Col. Harbee will see to it that they are all run on schedule time.

John Harris of Colorado City, a prominent West Texas cattleman, was here several days this week. Mr. Harris formerly belonged in Old Eastland and about a year ago left Texas for a visit to the mother country, and is just now returned to his adopted home. He is not exactly the same fellow now that he was when he left here for a wife accompanes him now and will share with him the care of life on the Texas ranch. The Journal congratulates Mr. Harris, and wishes a long and happy life to himself and wife.

Miles French of the Kansas City stock yards, who was here last winter, and who made so many friends among the cattlemen of Texas for both himself and the market of Kansas City, arrived in the city Sunday and is quartered with mine host Hardwick at the Hotel Worth. Mr. French is chock full of energy and knows his business thoroughly, and if a man doesn't want to ship to Kansas City, the Journal would advise him to keep away from French, for he can convince the hardest in the toughest order that his is the only market on earth.

W. L. Gatlin, the Abilene cattle dealer, is feeding. However, he is in it to stay, and if he can get a good place to put 600 more on, feed on January 1 he will do so. The Journal would call the attention of the oil mills people to Mr. Todd, and if any of them want a good cash customer would advise their corresponding with him at either Chotola, I. T., or Groesbeck, Tex.

Jimmie Todd of Chotola, I. T., was here Saturday night on route to the B. I. T. from Groesbeck, Tex., where he is feeding 4700 head of big beavers on the ambrosial mead. Jimmie says his cattle are doing fine, if getting fat and taking on flesh means anything. He is not very much encouraged at the outlook and don't seem to think that he will get very rich on the cattle he is feeding. However, he is in it to stay, and if he can get a good place to put 600 more on, feed on January 1 he will do so. The Journal would call the attention of the oil mills people to Mr. Todd, and if any of them want a good cash customer would advise their corresponding with him at either Chotola, I. T., or Groesbeck, Tex.

HORTICULTURE.

THE ORCHARD IN SPRING.

As soon as spring opens and the frost is out, every tree in the orchard should be carefully examined. In some soils newly planted trees will be more or less thrown out of the ground by frost. In these cases they must be pressed back with care. In another year, unless in soil very unsuitable for an orchard, the tree will have thrown their roots so deeply that this trouble will disappear. But not infrequently another will take its place in the rooting of suckers around the young trees. This may happen to any tree, but it is more common in young orchards subjected to heavy pruning, and it may be mainly avoided by frequent knife pruning, pinching, and disbudding during the growing season. The orchardist who plants trees from the upper cut of a root in root grafting will see most of this trouble. There is no effective remedy but to entirely remove the earth around the tree down to the origin of the sprouts and their careful excision.

SOAP FOR THE TRUNKS OF TREES.

A few years ago, says American Agriculturist, a shrewd fellow traveled through the States stating the recipe for a compound, the ingredients of which could be obtained cheaply at any drug store. Two ounces of the compound was to be dissolved in a quart of water and hung in the crotch of an apple and other fruit trees. Those who purchased and tried the recipe were gratified to find, at the end of the year, that the trunks of trees so treated were free from loose bark, moss or scale, and presented a fine, green, healthy appearance. Some of the ingredients were whale oil soap, potash and salt. Since then others have produced nearly the same results by cutting up into pieces, about the size of a pea, a piece of hard soap and hanging it up in the trees. The more alkali the soap contains the better will be the result. Place the soap in a coarse woven cotton cloth as early in the spring as possible. The rains dissolve the soap slowly, and it runs down the body of the tree, to be effective. The soap should be shown for several years thereafter.

THE CULTIVATION OF ORCHARDS.

(By Prof. L. H. Bailey.)

If orchards are to be made profitable, they must receive as good care as other crops.

Good drainage, natural or artificial, is essential to success. Trees are impatient of wet feet.

Well-drained lands are dryer in wet spells and moister in dry spells than other lands. They can be worked earlier in spring.

Good tillage increases the available food supply of the soil, and also conserves its moisture.

Trees should be made to send their roots deep in to the soil, in order to fortify themselves against drought.

Deep plowing should be done and by plowing the orchard rather deep. This deep plowing should begin the very year the trees are set, and it should be continued every spring until the habit of the trees is established.

Moisture is retained in the upper soil by very frequent but shallow tillage, by means of which the surface of the land becomes a mulch for the soil beneath.

Tillage should be begun just as soon as the ground is dry enough in spring. This tillage should be repeated as often as once in two days throughout the growing season, which extends from spring until fall.

Tillage should not exist for the purpose of killing weeds. Weeds have taught the most important lesson in agriculture to be by the farmer's schoolmaster now be able to retire.

Late cultivation may be injurious by inducing a late growth. At all events, it must be of some utility when the tree begins to mature and rains become frequent. This season of respite gives the grower the opportunity of raising a green manure, which, if sown and plowed to his land at trilling expense and with no harm to his trees.

Full plowing may be advisable for farm crops, but it is to be discouraged in orchards. The land in orchards should be left compact in the fall, and it is advisable to cover it with some close herbage.

Only cultivated crops should be allowed in orchards early in the season. Grain and hay should never be grown. Nursery stock should not be grown in orchards.

Even hoes or cultivated crops may rob the trees of moisture and fertility if they are allowed to stand above the tree roots.

Cultivators is the best crop to raise in an orchard.

Soil is sometimes allowable in apple and standard pear orchards, but never in other fruit plantations; but even then it should be pastured closely with sheep or hogs. If the stock is fed at the same time the land will fare better.

Watch a sod orchard. It will begin to fall before you know it.

Probably nine-tenths of the apple orchards of New York state are in sod, and many of them are meadows. Of course they are falling.

The remedy for sod apple failures is to cut down many of the orchards. For the remainder the treatment is cultivation, fertilizing, spraying—the trinity of orthodox apple growing.

In general, level culture is best. The modern cultivators and harrows make such cultivation easy.

Trees, especially apples, are often trained too high, because of the difficulty of working close to them. Modern tools will bring the heads within reach.

Harnesses with no projecting frames nor metal turrets, should be used in bearing orchards. Those requiring no wireframes are also useful.

"TEXAS PANHANDLE ROUTE,"

Port Worth and Denver City RAILWAY.

MORGAN JONES, JOHN D. MOORE, Receivers.

Short Line from Texas to Colorado.

CHANGE OF TIME, July 1, 1894.

Through train leaves Fort Worth at 10:05 a. m., arriving at Denver at 5:55 p. m., passing through

SAN ANTONIO AND ARANSAS PASS RAILWAY COMPANY.

THE GRE Live Stock Express Route

From Texas Points to the Territories and Northern Markets.

All shippers of live stock should see that their stock is routed over this popular line. Agents are kept fully posted in regard to rates, routes, etc., who will cheerfully answer all questions.

E. J. MARTIN, General Freight Agent, San Antonio, Tex.

CHRISTMAS! ON ITS OWN RAILS

With The "OLD FOLKS AT HOME" Southeastern States

Is a goal for which many Texans are striving at this season of the year, and to enable all who desire to reach their goal, the sale of round-trip tickets for the annual

HOLIDAY EXCURSIONS

TRAINS ON THE MISSOURI, KANSAS & TEXAS RAILWAY

Now Run Solid St. Louis Chicago Kansas City

WAGNER BUFFET SLEEPING CARS

FREE CHAIR CARS.

TRAVEL IN COMFORT

By Taking Advantage of the Superior Train Service

Elegant Equipment and Fast Time Via the

TEXAS AND PACIFIC

DECEMBER 20, 21, 22, 1894.

Tickets will be limited for return 30 days from date of sale, and will be sold at the remarkably low rate of

ONE FARE for the ROUND TRIP.

Remember the Texas and Pacific railway is the only line offering a choice of routes either via New Orleans, Shreveport or Memphis, and gives unequalled double daily train service to any of the above points, making close connection with all diverging lines.

Your home ticket agent should be able to give you full particulars and sell you a ticket via this deservedly popular line, or you can obtain all desired information by addressing either of the undersigned.

W. A. DASHIELL, Trav. Pass. Agt. GASTON MESLIER, General Passenger and Ticket Agent, DALLAS, TEXAS.

RIDE ON THE RED EXPRESS,

The new night train on

THE SANTA FE.

Pullman Buffet Sleepers and Free Reclining Chair Cars.

The Quickest Time Between North and South Texas and a solid Vested train between

Galveston and St. Louis.

MINERAL WELLS, TEX

Rapidly becoming the greatest watering place of the South, is reached only via the Weatherford, Mineral Wells and Northwestern railway. Excursion tickets are on sale with the principal roads of the state. All Santa Fe and Texas and Pacific trains make connection at Weatherford, Texas, for Mineral Wells.

For further particulars, address, W. C. FORBESS, Gen. Freight and Pass. Agent, Weatherford, Tex.

TIME TABLE.

Double Daily Trains, Except Sunday Effective, April 30, 1894.

Leave. Arrive. Mineral Wells 7:00 a. m. Weatherford 8:55 a. m. Weatherford 11:00 a. m. Mineral Wells 1:30 p. m. Sunday Only.

Leave. Arrive. Mineral Wells 9:00 a. m. Weatherford 10:00 a. m. Weatherford 11:00 a. m. Mineral Wells 12:00 p. m.

Burlington Route.

SOLID THROUGH TRAINS FROM Kansas City TO Chicago, Omaha, Lincoln, St. Joseph, Denver, St. Paul and Minneapolis

WITH THROUGH SLEEPING CARS FROM Texas points via Hannibal TO CHICAGO

Via Missouri, Kansas & Texas Railway AND Chicago, Burlington & Quincy R. R.

ONLY ONE CHANGE OF CARS TO THE Atlantic Coast AND EASTERN PORTS.

Trains Daily Between St. Louis, St. Paul and Minneapolis. Sleeping Car St. Louis to Omaha.

D. O. IVES, General Passenger and Ticket Agent, St. L.

SHORTEST ROUTE, BEST ROADBED, QUICKEST TIME

—VIA THE— COTTON BELT ROUTE.

THE ST. LOUIS SOUTHWESTERN RAILWAY

Offers to live stock shippers the shortest route to St. Louis, Chicago and Memphis.

The COTTON BELT ROUTE is, by actual measurement, considerably the shortest line from Fort Worth to Texas points, and is now prepared to handle live stock shipments with all possible dispatch. Write to or call on General Live Stock Agent, Corner Main and Third, Fort Worth, Texas. All shipments handled with care. The nearest route by which to ship. Unexcelled in any particular. See that your stock is billed via the

ST. LOUIS SOUTHWESTERN RAILWAY THE COTTON BELT ROUTE.

THE Queen and Crescent ROUTE.

To the NORTH AND EAST

Choice of Routes via New Orleans or Shreveport. Solid Trains New Orleans to Birmingham, Chattanooga and Cincinnati. Through Cars Shreveport to Washington and New Orleans. To Washington and New York.

Shortest Line

The Q. & C. offers the only line from Shreveport to Cincinnati, all under one management with solid vestibuled trains from Meridian. Only one change Shreveport to New York on vestibuled trains through Shreveport, New Orleans, New York. Direct connection at Shreveport and at New Orleans with West Texas Lines.

San't C. Ray, T. P. A., Dallas, Tex. R. H. Gerratt, AGA, New Orleans. L. Hardy, A. G. P. A., Vicksburg, Miss. W. C. Rinehart, G. P. A., Cin't.



NEW COTTON BELT TRAIN

To the Traveling Public.

We take pleasure in announcing that, commencing September 30, 1894, the "Cotton Belt Route" will restore to trains Nos. 1 and 2 on the Fort Worth division, giving us double daily service between Fort Worth and Memphis, in addition to our present double daily service between Waco and Memphis.

Please Note the Following Schedule:

Table with 4 columns: No. 2, No. 4, No. 3, No. 1. Rows show departure and arrival times for various stations like Waco, Hillsboro, Corsicana, Tyler, Fort Worth, Plano, Greenville, Sherman, Commerce, Mount Pleasant, Texarkana, Shreveport, Camden, Pine Bluff, Fair Oaks, Memphis.

These trains are fully equipped with Through Coaches, Free Reclining Chair Cars and Pullman Buffet Sleepers, between Fort Worth and Memphis and Waco and Memphis, without change.

The Cotton Belt route is the only line operating solid through trains without change between Texas and Memphis. We trust that this unexcelled train service will receive due appreciation at your hands by our receiving a good share of your patronage to the old stage.

A. A. GLISSON, S. G. WARNER, A. W. LaBEAUME, T. P. A., Fort Worth, Tex. G. P. A., Tyler, Tex. G. P. & T. A., St. Louis, Mo.

"SUNSET ROUTE."

Galveston, Harrisburg and San Antonio Railway, Texas and New Orleans Railroad, Southern Pacific Company, Morgan's Steamship Line,

TWO DAILY

Daily Through Trains between New Orleans, California and Oregon Points, with Pullman Buffet and Tourist Sleepers.

Through Trains between New Orleans, California and Oregon Points, with Pullman Buffet and Tourist Sleepers.

Through Bills of Lading via "Sunset Route" and Morgan Line of Steamers to and from New York, all points East and West.

For information call on local agents or address H. A. JONES, G. P. A., Houston, Tex. C. W. BEIN, T. M., Houston, Tex. L. J. PARKS, A. G. P. & T. A., Houston, Tex.

The Great Santa Fe Route.

Live stock express trains run daily over the Gulf, Colorado and Santa Fe from all points on their lines and from connecting lines in Texas and the Indian Territory, via Abilene, Fort Worth and St. Louis, making the lowest possible price. The Santa Fe is making a specialty of handling live stock, and can assure our patrons that we can give them as good facilities and as prompt as any other transportation company in this state. Route your stock via the Santa Fe route. For further information, apply to

J. L. PENNINGTON, General Live Stock Agent, Fort Worth.

L. J. FOLE, General Freight Agent, Galveston.

DR. FRANK GRAY

Practice confined to diseases of the EYE, EAR, NOSE and THROAT

Special attention to surgical diseases of the eye and the proper fitting of spectacles. Catarrhs of the nose and throat successfully treated at home. Largest stock of artificial eyes in Texas. Refers by permission to editor of Texas Live Stock Journal.

Office in Peers' Building, Cor. Fifth and Main Streets, Fort Worth, Tex.

MARKETS.

CHICAGO MARKET. U. S. Yards, Ill., Dec. 5. Stock and Farm Journal... Receipts, 14,000, mostly natives...

NEW ORLEANS PRODUCE. New Orleans, Dec. 5.—Hog—Produce... Receipts, 14,000, mostly natives...

Compound from Canada. The worthless stuff was being sold under that name at this time...

DAIRY.

DAIRYING—ITS ADAPTABILITY TO THE UNITED STATES AND STOCK AND FARM JOURNAL. Twenty-five or thirty years ago it was held by many dairy writers...



EVANS-SNIDER-BUEL CO., Livestock Commission Agents. The Largest Exclusively Live Stock Commission House in the world...

CHICAGO LETTER. Chicago, Dec. 3.—During the past week about 5000 Texas cattle were received...

Liverpool Produce. Liverpool, Dec. 5.—Wheat—Spot quiet; No. 2 red winter 6s 3d; No. 2 contract...

RABBITS IN THE ORCHARD. Johnson Station, Tex., Nov. 23. Will you please name of your readers tell me what is the most effective process of keeping rabbits from cutting young fruit trees...

THE SOUTHERN POULTRY JOURNAL. The Southern Poultry Journal is the only second-class poultry journal in the South...

STANDARD LIVE STOCK COMMISSION COMPANY. Room 173, New Exchange Building, U. S. Stock Yards, Chicago, Ill.

Evans - Hutton - Hunter COMMISSION COMPANY, Live Stock Commission Merchants. National Stock Yards, Illinois...

Among the sales this week were: 123 cows, average 675; 120 heifers, average 850; 150 steers, average 750...

Wheat opened 1-8/16 to 1-1/2, buying caused 3-16; cotton, late selling; however, resulted in a close 3-8/16...

Another method, equally as good, is to keep these pastures from nibbling fruit trees to near the trunk...

It is a new departure, try it. Subscription price 50 cents per year. It reaches more buyers in the South...

FOR THE HOLIDAY VISIT. That solid standby, the Southern Pacific railroad, is making the very low rate of one fare for the round trip...

WM. HUNTER, Fort Worth, Manager for Texas. We make a special feature of the Texas trade.

Under the influence of very light receipts the sheep market has been brought back to life. The demand, however, is still very moderate...

Wheat opened 1-8/16 to 1-1/2, buying caused 3-16; cotton, late selling; however, resulted in a close 3-8/16...

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CAMPBELL, HUNT & ADAMS Live Stock Salesmen, Stock Yards, Kansas City, Mo.

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DRUMM FLATO COMMISSION CO. LIVE STOCK SALESMEN AND BROKERS. CAPITAL \$200,000.

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ZEB F. CRIDER COMMISSION COMPANY, LIVE STOCK SALESMEN AND BROKERS. SPECIAL ATTENTION TO TEXAS BUSINESS.

Under the influence of very light receipts the sheep market has been brought back to life. The demand, however, is still very moderate...

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FOR THE HOLIDAY VISIT. That solid standby, the Southern Pacific railroad, is making the very low rate of one fare for the round trip...

STEWART & OVERSTREET, Live Stock Commission Merchants. Office, No. 24 and 26, Exchange Building, St. Louis.

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FOR THE HOLIDAY VISIT. That solid standby, the Southern Pacific railroad, is making the very low rate of one fare for the round trip...

J. F. BUTZ & CO., LIVE STOCK COMMISSION AGENTS. Room 2, Exchange Building, Fort Worth Stock Yards, Fort Worth, Texas.

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FOR THE HOLIDAY VISIT. That solid standby, the Southern Pacific railroad, is making the very low rate of one fare for the round trip...

CASSIDY BROS. & CO., Live Stock Commission Merchants and Forwarding Agents. NATIONAL STOCK YARDS, EAST ST. LOUIS, ILL.

Under the influence of very light receipts the sheep market has been brought back to life. The demand, however, is still very moderate...

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It is a new departure, try it. Subscription price 50 cents per year. It reaches more buyers in the South...

FOR THE HOLIDAY VISIT. That solid standby, the Southern Pacific railroad, is making the very low rate of one fare for the round trip...

SCALING & TAMBLYN, Live Stock Commission Merchants. National Stock Yards, East St. Louis, Ill.

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FOR THE HOLIDAY VISIT. That solid standby, the Southern Pacific railroad, is making the very low rate of one fare for the round trip...

R. STRAHORN & JO., Live Stock Commission Merchants. Room 85, Union Stock Yards, Chicago.

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FOR THE HOLIDAY VISIT. That solid standby, the Southern Pacific railroad, is making the very low rate of one fare for the round trip...

GODAIR, HARDING & CO., Live Stock Commission Merchants. UNION STOCK YARDS, CHICAGO, ILL.

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FOR THE HOLIDAY VISIT. That solid standby, the Southern Pacific railroad, is making the very low rate of one fare for the round trip...

THE GEO. R. BARSE LIVE STOCK COMMISSION COMPANY. PAID UP CAPITAL STOCK \$250,000. Kansas City, St. Louis, Chicago.

SOUTHERN TEXAS

(Edited by R. R. Claridge, manager... Mr. Claridge is fully authorized to receive subscriptions, contract advertising and generally represent the Journal. All communications should be addressed to him.

Henry W. Rogers, the Bexar county ranchman and stock farmer, was in town last week, and says he has new roasting ears, cabbages, tomatoes and Irish potatoes, all as a result of an irrigation experiment he has been making.

Al McFadden of the Victoria country has been with us, and says the signs are right for the biggest calf crop down that way on record, that is, in proportion to the number of cows.

Mr. D. O. Lively, associate editor of the Journal, is to attend the irrigation convention, and had the pleasure of making his acquaintance and congratulating him on last week's irrigation page in the Journal.

Uncle Henry Stephens, John Claiborne, Tom Coleman and other well known cattlemen were in the Journal office one day this week, and got to figuring on the number of 4-year-old steers that will next spring be in the Territory.

Uncle Henry Care of the Aransas Pass live stock department is here and reports lively business in the Territory. Some are going out to feed, and a good many to market.

The question of irrigation in Texas has resolved itself into the question of where the water is to come from. The utility of irrigation was settled long before the San Antonio irrigation congress met.

San Antonio is a good place for the holding of an irrigation congress. There are three live stock warehouses, and numerous warehouses full of imported beef.

A man who has a dozen homicides charged up to him, and who has served a long term in the pen, was here recently, and it was disgusting to see him lionized by a certain class, and even by men who make pretensions to good citizenship.

G. E. King, the Williamson county Poland China breeder and cattle feeder, says that by planting sorghum he can get out of land all the money that anybody should reasonably expect to get out of land.

McCormack of Del Rio, ranching in Mexico was here the other day. Grees with me that there are at present hardly enough cattle in Mexico to have much effect upon the American market.

A. D. Walling of Hill county has been picking up feeders "round about San Antonio. Sent out the second train load Saturday, bound for his Hill county feeding pen.

Oh, Yes, Gentlemen! Several good mesquite pastures to lease; a "snap" or two in ranches; can take some property in exchange; 4000 sheep, 2500 weathers in the lot.

He said it went work at all, that if these fellows ever should get 'em down here, they would skin 'em so bad that they'd never want to come back.

A lot of fellows from the head of southern Texas were here this week and stopped at the Southern. They gave the clerk their six-shooters, which were dumped into an empty valise.

J. D. Jackson has shipped several lots of cattle from the Alpine country to San Antonio recently. Another herd of half fat cattle left that section last week for the J. M. ranch, Pecos county.

Col. J. S. McKinnon of Atascosa county has been here for a few days, and though not a delegate to the irrigation congress, takes a lively interest in its work.

Are you aware that in all the wreck of the world and crush of business of the farm land—men sure enough farm land—in Western Texas has held its own in the matter of value? Well, it has.

Uncle Henry Care of the Aransas Pass live stock department is here and reports lively business in the Territory. Some are going out to feed, and a good many to market.

A lot of fellows are watching the San Antonio stock yards, and making money feeding the steers. They pick up thereabouts. If they can buy feed and make money feeding such stuff, why can't the people who raise the steers make money by raising feed for them?

Bill Jennings bought 1000 big steers from J. S. McKinnon, Atascosa county at \$18.

Mr. Buel of the Evans-Snyder-Buel country, among the cattlemen at the Journal office this week, says he is enjoying his stay in South Texas.

McClintock is here from his Kinney county ranch. He is one of the largest handlers of cattle and sheep in the state. He has been lucky with sheep, and is betting on them this year.

McCormack of Del Rio, ranching in Mexico was here the other day. Grees with me that there are at present hardly enough cattle in Mexico to have much effect upon the American market.

Oh, Yes, Gentlemen! Several good mesquite pastures to lease; a "snap" or two in ranches; can take some property in exchange; 4000 sheep, 2500 weathers in the lot.

The tendency is more and more in the direction of a "gentlerment" of the dressed meat business, and from the standpoint of the grower, it is a very desirable tendency.

We Give Them Away to Our Friends!

Stock Journal

Sewing Machines

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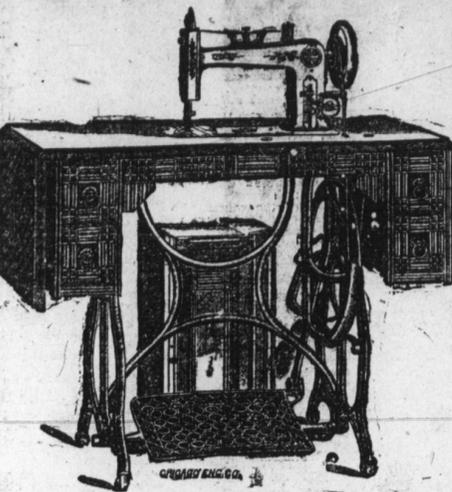
FULL DESCRIPTION.

THE STOCK JOURNAL SEWING MACHINE is one possessing great merit. The combination embodied in its construction is the result of 25 years' experience in manufacturing and selling machines. Nothing that is at all experimental has been allowed to creep in, thus insuring to the buyer that the features of this machine are reliable and durable.

There are four ways to get it. 1st. To any one sending us \$22.00, we will send the Journal and this machine, paying all freight.

NOTICE: All subscriptions must be paid in advance. You need not send them all in at one time, go to work and send in as fast as you get them and you will be credited with them when you get up the number, the machine will be sent as proposed.

The above description tells all about the machine. We can add nothing to the description after saying that if after fifteen days trial it fails to do any work done by any family sewing machine you may return it to us and we will refund every cent you have paid on it.



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Competitive buyers now located here for Fat Cows, Light Beef Steers and Feeders.

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Competitive Hog Buyers now on the market. Heavy and light hogs in demand.

SEND IN YOUR HOGS.

Government recognized separate yards for handling of cattle that are privileged to enter Southern states for feeding or breeding purposes.

Bill Your Cattle Privilege Fort Worth Market.

Write for Market Information.

G. W. SIMPSON, W. E. SKINNER,

President. General Manager.

THE UNION STOCK YARDS, CHICAGO.

Consolidated in 1885.

The Largest Live Stock Market in the World.

The center of the business system, from which the food products and manufactures of every department of the live stock industry is distributed from.

Accommodating Capacity: 50,000 Cattle, 200,000 Hogs, 20,000 Sheep, 2000 Horses.

The entire railway system of Middle and Western America centers here, rendering the Union Stock Yards the most accessible point in the country.

THE GREATEST HORSE MARKET IN AMERICA.

The Dexter Park Horse Exchange

With its dome lighted amphitheater, with a tunnel driveway through the center an eighth of a mile long, and a seating capacity of 6000 people, is the greatest horse show arena in the country for the sale or exhibition of "trappy" turnouts, coaches, fine drivers or speedy horses.

JOHN B. SHERMAN, GEO. T. WILLIAMS, President, Vice-Pres., Gen. Mgr., Secy. and Treas.

The Live Stock Market of St. Louis. THE ST. LOUIS National Stock Yards

Located at East St. Louis, Ill., directly opposite the City of St. Louis.

Shippers Should See that their Stock is Billed Directly to the NATIONAL STOCK YARDS.

E. G. KNOX, Vice President. CHAS. T. JONES, Superintendent.

THE KANSAS CITY STOCK YARDS

Are the most complete and commodious in the West and second largest in the world. Higher prices are realized here than further East. This is due to the fact that stock marketed here is in better condition and has less shrinkage, having been shipped a shorter distance.

Table with columns: Cattle and Calves, Hogs, Sheep and Mules, Horses and Oxen, Cars. Rows: Official Receipt for 1893, Slaughtered in Kansas City, Sold to Feeders, Sold to Shippers, Total Sold in Kansas City.

C. F. MORSE, General Manager. E. E. RICHARDSON, Secretary and Treasurer. H. P. CHILDS, Asst. General Manager. E. RUST, Superintendent.

JOHN A. McSHANE, Pres. W. A. PAXTON, Vice-Pres. J. C. SHARP, Secretary and Treasurer.

SOUTH OMAHA UNION STOCK YARDS CO.

Largest Feeder Market in the World. Over 200,000 Feeders Sent to the Country in 1893.

RECEIPTS FOR NINE YEARS:

Table with columns: Cattle, Hogs, Sheep, Horses. Rows: 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893.

We Want 150,000 Texas Cattle This Year.

W. N. BABCOCK, General Manager.

HORSEMEN OUGHT TO KNOW.

The stomach of a horse has an average capacity of three to three and a half gallons. It varies considerably, according to the size of the animal, the breed and the food.

The International Route.

The International and Great Northern railroad is the shortest and best line between points in Texas and Mexico.

DR. McCREW

IS THE ONLY SPECIALIST IN PRIVATE DISEASES, Weakness and Stomach Disorders of MEN ONLY.

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CURED Without the KNIFE or without detention from business. Fistula, Pileure, Ulceration of the Rectum, Hemorrhoids and Varicose Veins.

DR. BALDWIN,

Official Surgeon. Rupture, Piles, Fistula, Hemorrhoids, Ulceration of the Rectum, Hemorrhoids and Female Diseases.

DR. N. WALLICH—THE DENTIST.

Teeth without plates; painless dentistry. All work warranted. Office—Corner Houston and Second streets, Fort Worth, Texas.

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THREE-FOURTHS ACTUAL SIZE.

Among the events which have marked an era in the perfection of mechanical art, the making of a stem winding watch, warranted to keep as good time as anybody's watch at the price of \$1.50, is most prominent.

At that time it was believed that that almost infallible Journal had been "taken in." The sale and use of 100,000 of these watches during the past year has demonstrated the fact that any claim then made, was founded in fact.

The watch is American made. It has open case so fitted as to exclude dust and moisture. The case is nickel silver and is fitted with chain and charm. It is regular size and short wind. There is nothing fakey or "jakey" about the watch.

We will send you one postpaid for \$1.50, or watch and Journal 12 months for \$2.00; or watch free for three subscribers to the Journal for 12 months.

STOCK JOURNAL PUBLISHING CO., Fort Worth, Texas.

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