

THE BATTLE OF THE BREEDS.

A Paper by Captain John Tod, Manager of the Laureles Ranch, Corpus Christi, Read Before the Late Meeting of the Texas Live Stock Association, Held at San Antonio.

The subject that you have done me the honor to introduce and discuss before this meeting of practical stockmen, namely, the breed of cattle best adapted for all purposes for use of Texas stockmen, is too comprehensive to be decided offhand. I have no desire to rush into the breach of "The Battle of the Breeds" and be carried out and added to the long list of named and crippled, from that indecisive and inglorious combat. It is hardly in human nature to approach this subject with an unbiased mind, but it is a most interesting and inviting one to the stockmen of Texas than I believe they have yet realized.

To me it appears as if it would be well spent money, if this association would spend a few hundred of dollars in appointing a jury to inquire into and report on the subject at next year's meeting; that jury to consist of a practical breeder, an experienced feeder, and an all-around cattleman, who knows the business from the Gulf of Mexico to Montana and from the Pacific to the Atlantic.

There is such a wide difference as regards climate, altitude, food, and distance from markets in the cattle-raising sections of the state of Texas, that it makes the subject the more difficult to deal with.

In almost every part of Texas the beef breeders have been tried, and we are only dealing with these, for not with dairy stock, and I am only discussing "The Commercial Steer," if I may so term him, that the stockmen of Texas should raise, not the steer of commerce which the speculator and trader handle, and which may be an "old-time" Texan or Mexican if there appears to be a dollar in him.

THREE BEEF BREEDS.
To take an intelligent and comprehensive grasp of the subject, you have to go back one hundred years to the earliest records of the Durham, the "grading up." There are, and I may as well throw down my glove in challenge, but three great beef breeds which the stockmen of Texas need probably discuss—the Polled Angus, the Hereford, and the Durham. I do not mean by this to cast any aspersion on the Devon or the Red Polled; the former will give vigor of constitution, a good color, and shorten the legs of the Durham, if the stockman is, by the introduction of Devon blood, to grade up, he is practically admitting that his Durhams need these qualities to improve them.

This is not an admission on my part that the Durham needs this improvement, it is simply a question if these particular Durhams need it. With regard to the Red Polled, which is a breed, and may be called a fixed type in the counties of Norfolk and Suffolk, England; the most valuable quality in them, in my opinion, would be in using them to abolish the horns. This appeals to the feeder in the most emphatic manner, and these remarks lead easily and naturally to one of the great beef breeds, the Polled Angus; and, right here, I wish to say that the greatest objection to them lies at the corner.

We Texas stockmen have to bear this in mind, that, broadly speaking, the bulk of the improved breeding stock of Texas is through the Durham; the grading up has been through the blood, and the tendency has been to breed solid reds as much as possible. Uniformity in color, if quality is not sacrificed, is of great value, and it would seem a pity where so much has been gained, to lose it. In a small herd, on stock of the same color, the color is of less importance; but when a herd of hundreds or thousands of steers are put together, there can be no question as to a value being put on, and a premium paid, for uniformity of color. The use of a black bull in a general run of herds in Texas, would, in my opinion, be a mistake.

THE POLLED ANGUS.
Sixteen years ago some of the best Polled Angus blood in Scotland was introduced in the Laureles ranch, near Corpus Christi, and the warm climate, a great change from their native land, together with the effect of Texas fever, showed that they were not suited for the locality and conditions, unless extra care was bestowed upon them. In fact, they could not travel and "rustle" in large pastures; but, in Texas, in the Panhandle, the use of this breed has, I believe, been quite successful.

As a beef breed they have grand qualities, possibly better than any other in the Durham (though it is to be doubted, if more so than what is known as the Scotch Cruickshank Shorthorn), short-legged, blocky and very beefy, a great feeder's steer, but it may be questioned if it is an animal for the open prairie and large pastures of West and Southwestern Texas. For the farmer or stock farmer who can give them shade, shelter and food to hand, this breed is admirably suited.

In Scotland, of pure-bred red Polled Angus.
It is often unseemly to introduce personal experiences into such discussions, but I may be pardoned for relating that in the importation of pure-bred Polled Angus cattle made for the Laureles ranch, Corpus Christi, a red bull calf was born on the trip, and this bull was used for years in the graded Durham herd, and never produced anything but red offspring.
Leaving the Polled Angus breed, after discussing its distinctive features, and expressing my opinion, that it is a better stock-farmer's animal than a ranchman's, except perhaps, in some Northern parts of this state; I now come to the breed, that, possibly, is of exactly opposite character, namely, the Hereford.

THE HEREFORD.
We have to go back to the end of the eighteenth century and beginning of the nineteenth century to trace the history of this breed, and it may be said to have any, and instead that what is more probable, like some, if not all of the other breeds, it was but the development of individual excellences and characteristics, in the hands of an intelligent breeder, with a breeder's instinct or intuition, whatever it may be called, for the science or theory of evolution was then practically unheard of. I am indebted for my information and statistics, regarding the early days of the Hereford and Durham, in England, to Professor Youatt's Book on Cattle, then of the Royal Veterinary College, London; the book was published, I think, in 1842, and considered thoroughly reliable, was long used, and may yet be used, as a text-book in the veterinary colleges. It must not be supposed that in starting out with such a remark as I made in contrasting the Polled Angus with the Hereford, that it was meant to convey the idea that the Hereford was without merit as a feeder; by no means. As far back as 1798, just one hundred and two years ago, an experiment was made by the then Duke of Bedford, in Devonshire, four breeds being tried: the Hereford, Devon, Sussex and Leicester, and although the Devons came out ahead in gain of weight, the Herefords were the heaviest, one of them weighing 2377 pounds; this was in the native county of Devon, but it is frankly admitted, that afterwards the Duke superseded that breed (the Devons) with Herefords on his Bedfordshire estate. It is a fact, from there to the Norwich Fat Stock Show in England, in November last, when her majesty's two years and eleven-months-old Hereford steer, weighing 1965 pounds, and also at Birmingham Smithfield, came out champion against all breeds and classes.

It is a still further cry to the north part of the Panhandle of Texas; the fall of 1891, when I looked on an experienced cattleman, since dead, in using them to abolish the horns, "punching" the cattle into the cars destined for Northern feeders, exclaimed, "These fellows feeding in Kansas and Nebraska want Whitefaces, and I would like them what have they want?"

ON THE GRASS.
As a general rule, it is, I think, generally conceded that the Hereford stands pre-eminent, his vigor, hardiness and power of endurance are unparalleled; this statement is hardly likely to be challenged—wherever you put him, in the frozen North or in the "Sunny South," he is equally at home. Over and over again it has been my good fortune to have opportunities of comparing the Hereford with other breeds, under these different climatic conditions, and invariably the conclusions were in favor of the breed. Not only as regards climatic conditions, but when other adverse conditions occur, such as scant grass, long distances from water, scarcity of shade, or total want of it, the Hereford, "in the end," there "all the same. It must be remembered that the "old time" Hereford, first seen in Texas, has come and gone, vanished. He was not a Sir Bedwiler. The coarse-horned, "spiky quartered" Hereford, brought here in the early days, was a travesty on the breed, and gave it a foul (under the belt) blow, that it took years to overcome. Is he so far behind the Durham in weight now? This is the general argument against the Hereford, let me endeavor to meet it.

Admitting, but only for the sake of argument, that, individually, the Durham is heavier than the Hereford. Where do you stand, what do you gain? Suppose we take one thousand graded cows of equal quality and size, in every way whatever, place them on the range; with one thousand head, put Hereford bulls, and with the other thousand put Durham bulls of same class or grade, subject them to the average conditions prevailing in Southern Western or Northern Texas (these conditions being generally more or less adverse than entirely favorable), at two years old, take the steer produced of each thousand cows of the range, put them on good grass and feed, and, at say three and a half years old, let them be weighed to the butcher; I venture to say that the cross-bred produce will show most gain, both to breeders and feeders. This, of course, would prove the vigor and prolificness as a breeder, and vitality of the Hereford, and the vigor of the cross-bred; but it would also show the virtue of the Hereford as a range animal. The gross weight produced, not the individual weight, is what the producer has to fall back on. The more pronounced the Hereford

blood shows in the range steer, the greater appears to be the success. The pure-bred Hereford has been tried on the range to a considerable extent, and has asserted himself. What a contrast from the luscious grass of the meadows around Windsor Castle, England, to the stony and Nevada! "Extremes meet," it is said, and here we seem to see it. Only a few weeks ago two cows met to speak, from opposite ends of the earth, in Kansas City; and at a public sale, one brought \$1010, and the other \$1175, showing how adaptable is the Hereford.

THE DURHAM.
Now we come to the Durham, and here we tread upon the borders of romance. It would be incredible, had most of us in our experience not seen manias developed; that while one of the great progenitors of this breed (the "Hubbuck" at the close of the eighteenth century, was picked up, I might say, on the way, for \$40, and about ninety years afterwards, at the New York Mills sale, on the 10th of September, 1873, a cow worth \$40,000, two cows went over \$90,000, one \$70,000, another averaging over \$22,000, and, coming down to time when more sane business views prevail, a yearling bull, Scotch-bred, was a few months ago sold, to go to South America, for \$4000.

If the history of the development of the Durham, from the end of the eighteenth century, does not read, as I have said, like a romance, then I do not know of any commercial enterprise that does. From early histories of the breed, it can be gathered that a very superior class of cattle called "Teewaters," was established in the valley of the Tees, in the county of Durham. It is asserted that they were still further improved by an importation from Holland, by a young man, an improvement in the somewhat large and coarse animal that great breeder, Mr. Charles Colling, had recourse to a cross, namely, a red polled Galloway cow. From this cross sprang, probably the best bull of the Northumbria then existing. On the 14th of October, 1810, at a public sale of animals, forty-eight head of the descendants of this cross, sold at an average of \$741.

Since these days it is but reasonable to believe that the Durham has not deteriorated; the highly-prized Scotch Cruickshank must have great merit. There cannot be a doubt, however, that line breeding in the United States had led to weakening of constitution. Happily, however, I believe to a great extent, that this has been overcome, and should soon be overcome. Probably this very fact led to the belief that the Durham was tender, that he failed on the range, and that he was a rack and feed through animal. It is my belief, however, that this is a mistake, and that the idea that size was the great desideratum. How often do we hear a cattleman say he wants a rangy bull, the very opposite of what Mr. Charles Colling tried to get, and succeeded in getting.

What good judges try to get now, is a compact, blocky, short-legged animal. Get this, and there will be very little outcry about the Durham not being a "rustler." We, the stockmen of this section, give up this breed in absolute favor of any other; the pendulum will oscillate and like the rippling brook, "men may come and men may go," but the Durhams "go on forever."

I must again apologize for bringing in my personal experience, but I believe that the Polled Angus blood on the Laureles ranch (through the red Polled-Angus bull before mentioned), into Durham stock—properly speaking, Polled Durham stock, with invariable tendency to reproduce solid red polled animals, and which it is claimed will be the greatest event ever held in the United States.

Trading in Shackelford—Several land sales are reported to have been recently made in Shackelford county, and others are pending. Meeting of Shorthorn Breeders—The third annual meeting of the Central Shorthorn Breeders' association closes in Kansas City to-day after two days of interesting and profitable work. The executive committee of the American Shorthorn Breeders' association has completed arrangements for the great exhibition and sale of Shorthorns which takes place in Kansas City next October under the auspices of the Central Breeders' association, and which it is claimed will be the greatest event ever held in the United States.

An Extra Bounty for Wolf Scalps—The organization for the Laramie Plains Live Stock Protective Association of Wyoming has just been effected and is the largest organization of its kind in the state. It will offer an extra bounty to wolf killers. The other association of the state has been paying \$20 for gray wolf and mountain lion scalps and the state has paid for over 4000 scalps, but the deprecations continue to such an extent that the organization has decided to offer an extra bounty to wolf killers. The Laramie Plains association was considered imperative.

The Prairie Dog Question—The war of extermination on the prairie dogs being pushed energetically in West Texas and the Panhandle and in the Panhandle, it is not surprising that the cattlemen of those sections realize that, although, as a rule, cattles are getting along nicely now, they will need every blade of grass when it appears in the spring. The "chuck wagon" loading supplies to the new herds, full complement of traps, poisons and other ingenious devices for the unwary.

THE LIVE STOCK WORLD

Racing in the Argentine—Horse racing is to be found even on the deserts of Arabia, in the Transvaal, and even on the pampas of South America. In the Argentine Republic every Sunday in front of the stores can be seen a crowd of ganchos or peons of the race, and the speed of their ponies, and that peculiar race of Spanish blood are gambled from the word go and will bet all their earnings of a year, and if they lose will go back into seclusion, minding sheep and cattle until they recuperate, when they will come back to try their luck again. In Buenos Ayres, the capital of the Argentine Republic, where great wealth abounds, nothing has been spared either to give comfort in their grand stables, or to give prizes to the winners of the thoroughbred, so as to obtain everything of the best. Each year the sport is growing in favor, and the purses every race Sunday vary from \$550 to \$1,400. The big event of the year is the Gran Polla de Patrillos, similar to a Derby, as it is for three-year-olds only, at 1,600 meters or one mile; \$2,080 is given to the winner, \$1,320 to the second horse, and \$200 to the third. The entrance fee is \$200, so the third horse only saves his stakes. The races horse owners are paying big prices for horses in England. During 1899 Greenan by St. Simon-Sunrise was bought at \$13,000, East at \$10,000, and Le Mat, by The Bard-Maggie, at \$6000.

Tuberculosis Laws of Illinois—A committee of five stock raisers and dairymen reported at the Briggs house, Chicago, last week, to a mass meeting of farmers and stockmen on the evils of the present state laws concerning the tuberculin test for tuberculosis and the compulsory enforcement of the same. The report commended the disadvantages of the tuberculin test as it is at present applied. The assembly unanimously adopted the report and also a resolution to the effect that the chairman of the meeting appoint a committee to report to the governor on the existing laws, and to suggest some modifications of the same. The committee is authorized to call other meetings, if it should see advantage in so doing, and to suggest some modification of the quarantine law so far as the protection of the public health and the stock interests of the state might be conserved, and that it recommend to the next legislature such legislation as will be necessary for the protection of private property, the soundness of the cattle and the prosperity of a leading industry of Illinois.

A Concession to Sheepmen—Utah has recently made concessions of grazing land to the sheepmen, which will place them in a much better position than they have been for a long time. The agitation in respect to the forest reserves in the Utah Indian reservation was a great factor in bringing about this state of affairs. The Uncampahge Indian reservation has been thrown open, and in addition some of the forest reserves in the Utah Indian reservation, which sheep owners pay so much per head, which they have never done before, but they realize that the advantages gained more than compensate them for the additional outlay.

San Antonio Stock Receipts—The following is the statement of the stock receipts at San Antonio, showing the receipts, sales and shipments of stock handled from Jan. 1 to Feb. 1: Galveston, Harrisburg & San Antonio railway—Cattle 1834, calves 316, hogs 399; total 2549. International & Great Northern railway—Cattle 777, calves 124, horses and mules 133, hogs 757, sheep 260; total 2051. San Antonio & Aransas Pass railway—Cattle 188, calves 91, horses and mules 219, hogs 282; total 500. Galveston, Harrisburg & San Antonio railway—Cattle 2023, calves 291, horses and mules 610, hogs 2, sheep 240; total 3168. International & Great Northern railway—Cattle 553, calves 99, horses and mules 63; total 715. San Antonio & Aransas Pass railway—Cattle 111, calves 12; total 123. Galveston, Harrisburg & San Antonio railway—Cattle 9; total 9. Driven in—Cattle 1455, calves 193, horses and mules 237, hogs 1399, sheep 20, goats 81; total 5333. Total—Cattle 4151, calves 595, horses and mules 910, hogs 1299, sheep 260, goats 81; total 7296.

The American Horse in England—For the first time in history an American horse has been entered for the grand national steeple-chase, four and one-half miles, to be run at Liverpool, England, March 30. He is Montauk VII, by Strathmore-Spinaway, and has already won several races for Lord William Berezford. All the early big racing entries from the owners of American bred horses.

Kansas Quarantine Regulations—The Kansas Live Stock Sanitary Board's last bulletin regarding the movement of cattle into Kansas is as follows: "For the better protection of cattle interests in Kansas, live stock laws and regulations admitting cattle into Kansas from points north, east, west and above quarantine line, as shown in the governor's proclamation, issued February 25, 1899, are amended as follows: "Section 1. Cattle to enter Kansas from below the line above described shall comply with the rules and regulations of 1899 as to affidavits. No inspection will be required for cattle coming from the territory described

in rule 7, rules and regulations of 1899, until further notice. Except as to inspection, all other rules and regulations issued April 23, 1899, are and shall be in full effect. "Section 2. On and after January 1, 1900, all cattle from points south, east, west and below quarantine line, as described in the governor's proclamation of February 25, 1899, are prohibited from entering Kansas except for immediate slaughter."

Illinois Dairymen in Politics—At the recent meeting of the Illinois Dairymen's Association, the convention early got mixed in state politics and there was considerable excitement all through the meeting. Dairymen of the state are almost unanimously opposed to the nomination of Judge Haney of Chicago as the Republican candidate for governor. Haney in a declaration made at the meeting, declared that butler and oleomargarine are the same product. He declared that both came from the cow and differ only in the manner in which they are manufactured. He held the Illinois anti-cow law as unconstitutional.

SALES.
The following transactions in live stock and ranch property have taken place within the past two weeks: Fleming & Davidson, of San Antonio, to Jno. W. Pines, of Brownwood, 450 coming 4's, immediate delivery, \$29.50. These steers will be put on feed at once. J. M. Chittum, San Antonio, to W. A. Lowe, same place, 2000 yearling heifers; terms, cash. A. B. Frank, San Antonio, to J. M. Chittum, 750 head 3's and 4's; price not known. Florence Hall, of Gainesville, to W. A. Lowe and Henry Hall, of San Antonio, 3000 steer yearlings; price not known. D. P. Simmons, of Cook & Simmons, of Hillsboro, bought a carload of work mules in and around Gatesville last week. This and an additional carload which had on hand were shipped out on January 30, one car to Tennessee and one to Louisiana. Hammon & Row, of Meridian, Texas, shipped two cars of cattle from Weatherford January 31 to Meridian, Texas, which they had on hand.

J. M. Chittum, San Antonio, sold on February 1 3000 yearling steers to W. J. Moore, Jr., and W. A. Allen, of Kinney county, at \$15 per head. April delivery. These cattle are in Cameron county. Felix Mann, of Menardville, has bought the dairy farm and stock of Jim Mott, near San Angelo, and will take charge at once. Consideration \$7500. W. A. Lowe, of San Antonio, to Gunter & Jones, of Cameron county, 3000 heifer yearlings. These are the same yearlings bought by Mr. Lowe from J. M. Chittum, also reported in this column, but the price, as in the previous deal, was not given out. C. C. Bruner, of Cleburne, has bought 300 steers at Dublin and shipped them to Cleburne, where he will prepare them for the market on crushed corn.

ANTHRAX AND BLACKLEG.
Causes and Symptoms of These Dangerous Diseases—Vaccination the Only Remedy.
Houston, Jan. 25, 1900. In reply to Texas Stock and Farm Journal: The outline of the causes and symptoms of the diseases among live stock known as anthrax, or charbon and blackleg, I take pleasure in furnishing same concisely as possible, and trust that it may benefit the stock raisers of this section. The information given is extracted from pamphlets on anthrax, or charbon and blackleg.

Both anthrax and charbon and blackleg are germ diseases, the germs entering the body usually with food, but sometimes through sores or scratches in the skin. The germs are very hardy and live in the soil for a number of years. They may be carried long distances without losing their vitality, and may be conveyed to the farm, ranch or plantation in a vast variety of ways. The grave of an animal that has died of either disease will keep the land infected for nine or ten years and stock grazing on such land are liable to contract the disease. A stream running near such grave will carry the infection all along its course. Fodder cut near a grave will convey the germs and infect the animals fed upon it. Hides are a fruitful source of infection, the germs, driven through a district where the germs exist are liable to and frequently take the disease. Anthrax and blackleg are highly contagious and one sick or dead animal may infect not only a whole herd, but a whole region.

SYMPTOMS OF ANTHRAX.
The symptoms vary according to the seat of the disease and the kind of animal attacked. In the most acute forms no symptoms are exhibited, as the animal dies suddenly, as from apoplexy. In the second type the disease begins with a high fever; feeding and rumination are suspended and chills and muscular tremors appear. The animals are dull and show great weakness. In the course of the disease the dullness gives way to uneasiness, champing of the jaws, spasms of the limb, kicking and pawing the ground, breathing difficult, the nostrils dilate and the mouth opens, the nose, mouth, rectum and vagina become bluish. The animal may urinate and the discharges contain red mucus or blood. Blood vessels may rupture, which gives rise to bloody discharges from the natural orifices. The animal will lie down and death result in one or two days. Carbuncles or swellings

sometimes appear. Post-mortem examination divulges premature decomposition. From natural orifices a blood-stained fluid flows in small quantities. Nearly all the orifices are specked with spots extravasated blood. The spleen is from two to five times its natural size and the pulp blackish, soft and disintegrated. The blood is of the consistency of tar and blackish in color.

CHARACTERISTICS OF BLACKLEG.
The characteristic symptom of blackleg is the appearance of a swelling or tumor under the skin. The tumor is usually found on the thighs, though it may appear on the neck, shoulder, breast, flanks or rump. If the swelling is stroked, or handled, a peculiar crackling noise is heard under the skin, and when it is cut into a frothy, dark, disagreeable smelling fluid or foam smelling gas is discharged. The same diseased condition that causes the tumor also causes a high fever and gives rise to dullness, debility, loss of appetite and rumination. Sometimes an animal lies down before any swelling is noticed and the disease may develop so rapidly that it may not be noticed until the animal has died in eight or ten hours; or it may be able to get up and walk about for a time, but the lameness, stiffness and general condition grows steadily worse, until death occurs in two or three days. Post-mortem examination discloses, in addition to the characteristic tumor, with blood and yellowish, jelly-like material and gas bubbles. The muscular tissues beneath the swelling are soft and easily torn and broken up. The spleen is unchanged and the blood readily clots, while in anthrax the spleen is much enlarged and the blood tarry and coagulating feebly.

There is no cure for either of these diseases after the disease is once developed. As regards the prevention of these diseases, it is now generally recognized and admitted that the one means is by vaccination with lymph of virus manufactured from germs of the disease itself after the method discovered by the great French scientist, Pasteur, in Europe some fifteen years ago. I should like to enlarge a little on this subject and the wonderful results that have been achieved in Europe, Australia, and more recently in this country. Blackleg vaccine is a preventive of blackleg only; likewise anthrax of anthrax only. BOYD-BELMONT'S LIVE STOCK COMMISSIONERS' CO. Per W. F. BOX, Manager.

ROUND BALE GINNERS.
Representatives from Texas, Oklahoma and Indian Territory Present—Freight Rates, Insurance, etc., Discussed.
A number of the American round bale cotton ginner of Texas, Oklahoma and the Indian Territory met by appointment Monday, Feb. 5th, at Fort Worth for the purpose of organization to do the cotton ginning business in a general way. The first part of the afternoon was taken up in an experience meeting, in which the various gentlemen gave accounts of the progress of the work of round bale ginning in their respective localities. This was all done in executive session. Sessions will be held to-night and tomorrow morning.

The following officers were elected this afternoon: J. R. Rogers, chairman; C. A. Beasley, first vice president for Texas; J. H. Draughn second vice president for Oklahoma Territory; secretary and treasurer, J. B. Ammerman of Cisco, Texas. The following firms were represented in the meeting: Frank Heirman & Co., Austin; Brookshire Cotton company, Brookshire; Isaacson Gin company, El Gumball; C. Hornum, Lexington; W. R. Davis, Lott; Luischner & Goscamp, Terry; Richmond Cotton company, Richmond; Braden Bros., Seguin; Jones & Powell, Smithville; Lowrey, Lawley; Wharton Cotton company, Wharton; Roach & Co., Bartwell; H. L. Seales, Corsicana; J. W. Bardwell, Ennis; T. J. Sheppard, Frost; D. M. Ezell, Faulkner; Mutz & Cassidy, Ferris; E. H. Barbee, Hico; Crumley & Morris, Hillsboro; Gin Cotton company, Itasca; Gin Cotton company, Italy; C. Reynolds, Mount Palm; R. K. Erwin, Hillbottom; Gin Cotton company, Morton; W. Star & Morton, Waxahachie; Arlington Cotton and Grain company, Arlington; Aubrey Gin company, Aubrey; Milligan Bros., Bowie; C. O. Fisher, Cotton company, Belcher; Dale & Whitfield, Bonham; J. B. Ammerman, Cisco; T. F. Jasper, Denton; Gin company, McKinney; William and Gin company, McKinney; Cotton company, Waco; company, Sunstun; T. F. Garland, Terrell; Blanton, Wray & Company, White Wright; and J. H. Draughn of Shawnee, I. T.

At a night session the ginner discussed their relations with the American company, competing with the Lowrey bale and the square, and all the principal features of their business from the making of contracts for the use of the gin up to marketing the cotton and insurance. Efforts will be made to secure lower rates of insurance and a lower freight rate on the round bale. It is proposed to hold a meeting of the association at Austin soon and at that time present the claims of the round bale people for a lower rate on their cotton.

The address of W. E. Anderson of Houston, the manager of the American company for Texas, made during the day, was made the subject of favorable comments. The question of admitting Lowrey bale ginners to membership in this association was raised, and with other questions left to the consideration of the executive committee. The following executive committee was appointed: Messrs. H. L. Seales, Corsicana; H. G. Ferguson, Wharton; T. F. Jasper, Denton; J. R. Griffin, Itasca; R. K. Erwin, Waxahachie; J. H. Draughn, Shawnee, Ok.; C. A. Beasley, Richmond; B. Ammerman, Cisco; A. J. Rogers, Arlington. A committee on by-laws was also appointed, consisting of Messrs. D. S. Cagle of Houston, R. K. Erwin of Waxahachie, and E. S. Crumley of Hillsboro.

GRASS EXPERIMENTS.
CONDUCTED BY COL. H. L. BENTLEY, AT ABILENE, TEXAS.
A Plot on Which the Grass Had Been Destroyed by Overstocking is Successfully Reseeded With Oasis Alfalfa, Brought From India.

Col. H. L. Bentley, special agent at Abilene, Texas, in charge of grass experiment stations, has recently forwarded his report to the Department of Agrostology at Washington. The report consisted of 127 typewritten pages and covers every phase of the work done on the station during the past year. The report is a most interesting one, and has been abundantly successful, according to all estimates and reports that have been made by competent committees, as well as Col. Bentley's own views. The experiments conducted for the purpose of restoring the range when destroyed and run down by overstocking and the experiments with certain foreign grasses and methods of soil cultivation, showing their adaptability to this country.

It was for the purpose of devising some cheap and adequate means for reseeding the land where the grass had been destroyed by overstocking that caused the station to be established. That these experiments have resulted beneficially is shown by the fact that when the land upon which they were conducted was sown to a committee of experienced stockmen in March, 1898, they decided that it would require sixteen acres of it to support a cow through the season, and expressed some doubt as to whether the yield of grass would be sufficient for that, and this season Col. Bentley has been and is now pasturing cattle on this land, and the results are most encouraging for every eight acres, and to use the language of one who has seen it, "you can't miss the grass."

There is now an unbroken turf over the entire land and the fine crops were commenced one-half of the land was devoid of vegetation and almost as hard and barren as a pavement. To obtain such extraordinary results by the use of the methods of cultivating the surface of the soil, so that the grass seeds can germinate and grow, have been tried.

That producing the best results was the discing of the surface in early spring. The disc-harrowing, which costs but a few cents per acre, leaves the ground loose on the surface and small furrows and ridges, which is best adapted to catching the grass seeds as they are blown by wind. Several of the experiments with the introduction of foreign grasses and foreign plants have proved successful. Chief among these was the experiment with the "oasis" alfalfa. This is an alfalfa that was found growing without irrigation on the high plains of India. The Agricultural Department secured some plants of it and sent them to Col. Bentley for trial. The seed were sown at three different times during the winter and early spring of last year. The early part of the season was very favorable, the rains being abundant.

The alfalfa grew rapidly and reached a height of some two feet. In July the drought set in and by Sept. 1 Col. Bentley reported that the alfalfa was all dead, and to every appearance it was. On Oct. 29 the rains came. Green shoots started from the roots and eight days from the date alfalfa eight inches tall was cut. At the present time, notwithstanding the frosts and freezes, the plants of alfalfa are as green as a wheat field. Col. Bentley has been so successful that this alfalfa was all dead, and to every appearance it was. On Oct. 29 the rains came. Green shoots started from the roots and eight days from the date alfalfa eight inches tall was cut.

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This, says ex-Congressman Cockrell, is about the first alfalfa produced in which money has been returned to the government when it had been turned over to any one to be expended for any purpose.

North Carolina Stock Statistics.
Bulletin No. 166 of the North Carolina College contains the following figures: On the first day of January, 1899, there were 248,263 milch cows in that state, which were valued at \$2,947,352, or \$15 a head. For the state of instruction the Bulletin gives the cow population of Connecticut which was 143,098, valued at \$5,087,134, or \$35.55 a head. In the year 1890, according to the United States census, Connecticut had 127,892 milch cows, which produced 10,969,253 pounds of butter, or about 81 pounds per head. During the same year North Carolina had 223,416 cows, which produced 28,374,000 pounds of butter, or about 125 pounds per cow. At that rate, in 1899, the cows of that state would have produced 14,578,038 pounds of butter, which, at 20 cents a pound, would be worth \$2,914,407.

A. B. Robertson of Colorado, has sold his residence which is located a mile or so out of town, to Mr. Fred McKenzie of Mitchell county. Mr. Robertson's interests required his presence in Colorado permanently, while Mr. McKenzie's business interests required a location outside of the city. The consideration was \$15,000. Mr. McKenzie will convert his newly acquired property into a Shorthorn breeding farm.

Charles Finley Martin, of Denver, secretary of the National Live Stock Association, is soon to be appointed a special agent of the government for the work of compiling the live stock census of the United States. This is something we have never had and the forthcoming census is ordered to include it.

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TOPICS OF THE WEEK.

BY E. C. SENTER.

Goebel's Last Advice. Truly, Kentucky's affairs of state are in a deplorable situation; one that puts in an extreme test the capacity of the people for self-government when they are stirred to the depths by popular passion.

Little Miss Armour, who will inherit something like \$25,000,000 if she grows to womanhood, was kept alive in tender infancy by an incubator.

The Orange Judd Farmer's report on the hog supply in the United States is being vigorously criticized both by hog raisers and the daily papers.

Quail shooting in Oklahoma, under the new law, ended Feb. 1. Until Oct. 15, Bob White can whistle defiance to a shotgun from every fence post without measuring the distance between them.

The Kentucky situation is not spread over as much ground as the African continent, but its effect on the public constitution is more acute.

Stock raisers in this country are watching with intense interest the news from Africa to see which will win—Bull or Boer.

Yearlings. The program for the meeting of the Oklahoma Live Stock association, at El Reno February 13 and 14, printed elsewhere, shows that Texas will be well represented.

At the San Antonio International Fair, premiums were offered for Red Polled cattle, and the requirements for recognition to compete in this class were fixed the same as at the Dallas State Fair.

The passenger department of the Sunset Route has issued a gem of the publishing art under the title of "Winter in New Orleans."

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THE HARNESS HORSE.

A Paper Read by Col. Henry Exall, of Dallas, Before the Texas Live Stock Association at San Antonio.

Mr. President, Ladies and Gentlemen of the National Livestock Association: On the bright day of October, 1898, a photograph was taken of a crowd of pleasure seekers in Lincoln Park, Chicago.

The American trotter can be made to meet almost every demand. We can breed him to be 15, 16, 17 or 18 hands high; to weigh 900 to 1400 pounds; to trot in 2:30 or better with a short season.

In Vienna, Austria, are to be found some of the fastest American trotters, quite a number having cost their wealthy Austrian owners ten thousand dollars apiece.

In the great international races at Nice last season, first, second and third money was won by American trotters.

What It Portends. With both sides, the South African war has become a more bloody struggle than it was supposed to be at the outset.

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INDUSTRIAL NOTES.

Belton has \$35,000 subscribed for a cotton mill, and as soon as the fund reaches \$50,000 work will be commenced.

A. H. Gee made a short canvass among the property holders of Pilot Point a few days ago and secured pledges amounting to \$35,000 for the purpose of building a cotton mill.

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THE "JOURNAL" HAMMER.

10 inches long. Weight 1 1/2 pounds. Made of best malleable iron.

It is one of the most convenient tools ever invented for the farmer or stockman. A glance at the picture will show you how it can be applied. Handy around a binder, or any machine where a hammer or wrench is needed.

It makes a good tool for any purpose. Drives or pulls a nail or uses a wrench. The steel pulling device is in front. The steel bar is in the middle. The handle is at the end of the handle makes a neat splice, saves time and avoids the usual practice of using the bar or other wire. It is made in splitting iron.

It costs for that alone. Some members of your family will find it useful every day in the year. It is a patented article and reveals everywhere at \$1.00. Over a million sold in the year. It is a dollar and the name of one new subscriber to the Journal will be drawn for a prize of \$100.00.

Write for a prospectus of this charge prepaid to you.

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DREAMERS.

"There's nothing half so sweet in life as love's young dream." The old song is right. Lovers are dreamers. They create a special world in which they live immune from the hurts and ills which beset common humanity.

Dr. Pierce's Favorite Prescription will do for a womanly life, practically everything that can be done by any doctor or medicine. It regulates the periods, cures constipation, cures inflammation, cures female weakness. It makes children healthy, and thousands of nursing mothers have testified to its tonic and strength giving properties.

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MARKETS

DALLAS

Dallas, Feb. 5.—A. C. Thomas' stockyards report: Choice steers, weight 1600 to 2000 pounds, \$3.75 @ 4.00...

FORT WORTH

Fort Worth, Feb. 5.—The receipts of hogs on our market last week were 578 head (57 cars). We topped the market at \$4.10...

poor to medium \$4.00@4.90, mixed stockers \$3.25@3.95, selected feeders \$4.20@4.90...

ST. LOUIS, Feb. 5.—Cattle receipts were 4500, including 3800 Texans; market steady to easier for natives...

KANSAS CITY Kansas City Live Stock Exchange, Feb. 3.—Cattle receipts for the week 15,000; same number the corresponding week last year...

ing 990 pounds, at \$2.75; 15 bulls, averaging 1000 pounds, at \$3.35. J. C. Poulton, Ky., Tex., 16 cars, averaging 1417 pounds, at \$4.00...

even, decreasing the world's stocks 1/4 million bushels in round figures, compared with a stand off anticipated...

DALLAS

H. C. Clark, who is interested in a ranch in Southern Texas, is at his home in Dallas. Armstrong & Co. of Dallas, received and packed 2600 hogs last week...

E. T. Ambler of Dallas, president of the Live Stock and Animal Industry company, sold recently to Geo. Keeline & Co. of Wyoming, 1600 head of yearling steers...

DALLAS

Armstrong & Co. of Dallas, received and packed 2600 hogs last week. They report a good demand at current prices...

W. R. McEntire, one of the wealthy cattlemen of Dallas, leaves this week for his ranch. He will return in time to be at the March convention.

DALLAS

Armstrong & Co. advise against the shipment of light steers and cows to the Dallas market at this time...

The following parties and firms sold hogs on the Dallas market Monday: Blank & Bell, Waxahachie; W. S. Payne, Reinhardt, Tex.; E. O. Dean, Mesquite, Tex.; Guy Blum, Elam, and A. W. Green, Lancaster, A. Lacy, Eagle, Tex.; Mayfield & Co., Alvarado, Tex.

DALLAS

Mr. F. M. Harris of Grand Prairie, who combines stock growing with his farm interests, called at the Journal office and enlisted on its roll of readers...

Judge J. O. Terrell of San Antonio, passed through Dallas Monday on his way to Terrell, thence to Kansas City, where he has been invited to address the third annual meeting of the Central Short Horn Breeders' association...

DALLAS

Shippers of live stock will notice in this issue the advertisement of the well known Elmire-Cooper Live Stock Commission company of Kansas City...

J. A. White of Weatherford, who has a ranch in Reeves and El Paso counties, is in Dallas for a few days on business. He is fencing his range now...

Readers of the Journal wanting to buy Shorthorn cattle will notice in this issue the advertisement of that old reliable Shorthorn firm, Thos. W. Ragdale & Son, Paris, Mo., wherein they offer bulls and heifers from one to a carload for sale...

Chas. Giddens of Brownwood, has just killed pig which was only 352 days old and weighed 540 pounds. He claims to be the champion hog raiser of Brown county, at least.

New Orleans, Feb. 6.—Cotton market opening: Feb. 7.95-98L, March 7.95, April 7.95, May 7.96, June 7.97, July 7.98, Aug. 7.96, Sept. 7.48, Oct. 7.34, Nov. 7.28.

New Orleans, Feb. 6.—Cotton market close: Feb. 8.19-20, March 8.16-17, April 8.17-19, May 8.18-19, June 8.18-19, July 8.20-22, Aug. 8.18-19, Sept. 7.68-69, Oct. 7.49-50, Nov. 7.40-42, Dec. 7.42. Toner firm. Spots steady, 1/2 up. Middling 5 7-16. Sales none.

New Orleans, Feb. 6.—Cotton market opening: March 7.83, April 7.83, May 7.84, June 7.84, July 7.85, Aug. 7.85-7.87.

New Orleans, Feb. 6.—All Europe is now in the spot market. One exporter sold 4000 bales. Another firm sold to Manchester at 1/4 higher than yesterday bid price. To buy in our market costs 1/4 to 3/16 higher than yesterday, but don't know how market will be noted officially.

BEECHAM'S PILLS will dispel the "blues." At the top of Breeders' Directory this week appears the advertisement of the well known Hereford breeder, Dr. S. Gordon of Weatherford, Texas, in which he offers several head of registered Hereford cows and heifers raised below the quarantine line...



Every cow would give half as much more milk as at present without increasing feed or expense of dairymen...



The best Saddle shipped from Pueblo for the money. The following parties and firms sold hogs on the Dallas market Monday...

Wholesale and Retail Mules and Horses. MEMPHIS, TENN. Our country has a big cotton crop. Plenty money. We expect the biggest cotton and mule trade we have had in twenty years...

FOR SALE. Second-hand Square Piano, splendid value. \$30, \$38, \$48, \$60, \$80 and \$105. Upright Pianos \$25 to \$45, easy payments.

Will A. Watkin Music Co., DALLAS, TEXAS. ORCHARD FARM HERD. Go to the Devil. River country and see the large list of stock and feed cattle, also large list of fine ranches for sale...

Standard Bred Stallion. Superior breeding, for sale or lease. Electioneer Stock Farm, A. D. ALDRIDGE, 222 Elm Street, Dallas, Texas.

FOR SALE. 600 acre stock farm in central Arkansas. All under fence. Two windmills, two big barns; 80 acres wood land, 1 1/2 miles from railway. Price \$1200...

TEXAS Mares Wanted. I want to buy one or two of Texas mares. Prefer them halter broke, 14 1/2 hands up. Address: W. T. SADDLER, Palestine, Texas.

THE BEST ON EARTH. The Dandy Windmill. Special Mills for Ranchmen. Why it is the Best. It is the strongest built, it is the most durable, it is perfectly governed...

FOR SALE-WANTED. LOMO ALTO FARM. ELECTRICITY at 11 years of age, size of Blonnie 2134, winner of the fastest race ever trotted in Texas...

Fine Hereford and Shorthorn Cattle for Sale. G. R. Reynolds & Bro. will offer for sale at Fort Worth, Texas, on Feb. 20th, 90 head of fine Hereford and Shorthorn Cattle...

COLLIER, HALL & CO. Wholesale and Retail Mules and Horses. MEMPHIS, TENN.

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Short Horn Cattle. C.S. BARCLAY PROP. West Liberty, Iowa. Car Loads for Ranch or Farm a Specialty. OF EITHER SEX.

Inoculated Red Polls. I have now at the Missouri Experiment Station for inoculation against Texas fever two loads selected five heifer calves, 14 1/2 hands up...

Shorthorn Bulls for Sale. I have five pure bred and five high grade coming yearling bulls. Also a few pure bred cows and heifers. Address: F. H. EUBANK, (Shackelford County) Moran, Texas.

New Fresh Seeds Free! Southern Seed Co. Live Oak, Texas. Will send you one package each of Rockford Cantaloupe, new Texas Tomato, Solid Yellow, Golden Wonder, and large variety mixed Florida Seed...

PROPOSALS FOR CAVALRY HORSES. I Office Chief Quartermaster, Department of Texas, San Antonio, Texas, January 24th, 1904. Sealed proposals in triplicate for furnishing about sixty Cavalry Horses for Post San Antonio, Texas, will be received here until 10 o'clock noon, February 24, 1904, and then opened. Proposals for delivery at other points in Texas will also be entertained...

WANTED—Men to learn barber trade. Two months complete. No expense if you will work for us. \$60 weekly paid. New opportunity for our graduates. Catalogue and particulars mailed free. Moler Barber College, St. Louis, Mo.

The Milano Route TO AUSTIN, SAN ANTONIO, SOUTHWEST TEXAS AND MEXICO. SANTA FE to Milano, I. & G. N. R. R. to San Antonio. WIDE VESTIBULED PULLMAN SLEEPERS AND Free Reclining Chair Cars.

Great Rock Island Route. MEMPHIS OR ST. LOUIS, In Pullman Buffet Sleeping Cars. This is the Short and Quick Line, and HOURS ARE SAVED By Purchasing Your Tickets via This Route.

When You Write to advertisers, always say you saw advertisement in THE TEXAS STOCK AND FARM JOURNAL.

