DESERET EVENING NEWS: SATURDAY, JULY 30, 1904.

Genesis and Growth of the Meat Packing Industry aE action of the execu- the pens, which are somewhat elevated. I far more profitable to prepare the prod- the byproducts. In the earlier days of been made. The Armours were plo- At the present time the live stock rais- genius fertile in expedient made the discovery that the object of animal of the industry the hide, tailow and grasse nears in the manufacture of animal or knows that he may feed any number discovery that the object of the industry the hide, tailow and grasse nears in the manufacture of animal or knows that he may feed any number discovery that the object of the industry the hide, tailow and grasse nears in the manufacture of animal or knows that he may feed any number discovery that the object of the industry the hide, tailow and grasse nears in the manufacture of animal or knows that he may feed any number discovery that the object of the industry the hide, tailow and grasse nears in the manufacture of animal or knows that he may feed any number discovery that the object of the industry the hide, tailow and grasse nears in the manufacture of animal or knows that he may feed any number discovery that the object of the industry is hide.



in ordering a strike mag the employees of all the meat ing establishments in the counwought with it an enforced realizathe magnitude of the industry, had fact was demonstrated primarily widespread discussion which inarose upon the immediate ef-

asily mose upon the food supply, stof the order on the food supply, if the bare mention of stockyal reacting houses the ever real the bare mention of stockyards packing houses the ever ready apparatus hastens to suggest Although the assembling of material and its subsequent en into food products are caren extensively in many other lowhile, Chicago is the center of the ducing activity of the country, is Union stockyards are still entibet producing activity is Union stockyards are still enti-is in Union stockyards are still enti-ed to a prominent place on a revised stof the seven wonders of the modern stof the seven wonders of the modern

The designation "stockyards" conmy little idea of what this enormous surgation of structures devoted to preparation of the meat supply acmeans. The district includes impese packing houses, an exchange g, banks, two daily newspapers world wholly to the interests of the is the business offices of hundreds gds, the business onces of Athareas attms, a horse exchange and a hun-ded and one other Interdependent bacesses. Altogether the inclosed see within the stockyards proper gers more than 400 acres. Of this acres are reserved for yardage The remainder is occupied by various packing houses and their

ess satellites. use stock) ands are entered through sive stone gateway, over the poris of which is inscribed the legend, on Stockyards-Chartered 1865." mentering, the visitor is impressed by erderly arrangement. Streets ineet at right angles through the ocks of pens, and each one of them is its separate gate entrance. At conent distances feed and store houses re located, and at suitable intervals ense scales are placed, with little dees beside them. The pens themgives are substantially built, and every still that can in any way contribute the expeditious handling of the refully provided. This is the part of testockyards controlled by the Union sockyards company, a combination which represents an enormous capital. Around this central inclosure, which s the original foundation of the preset overgrown bovine suburb, are the dings occupied by about forty They have been artacking houses. picking establishments the Armour ietes. This single instance furnishes a segestion of the floor space devoted to this particular branch of the business. would be entitled to about 664 pounds. It was the custom to ship stock alive to the seaboard and there prepare it for the European market. In time, how-bo the main buildings. At Armour's bate main buildings. At Armour's buildings. At Armour's bate main buildings. At Armour's buildings are required buildings. At Armour's buildings are required built buildings. At Armour's built buildings are required built buildings. At Armour's built buildings are required built buildings. At Armour's built buildings are required built The Armour plant alone has a floor cathe main buildings. At Armour's ever, it was made apparent that it was diligently to find a method of utilizing

cattle just unloaded from the cars to portions of their stock and thereby

A Packing House Laboratory

enter the inclined passage which leads to the pens. The trained animal walks up the incline as though it were the only proper course to pursue. Disarmed by the example of one of their own kind, the others follow. It is the universal custom at the

stockyards for packers to purchase daily for spot cash only as many animals as are to be converted into meat products on that day. For that reason the buying is done in the early morn-ing, and the score or more of railroad companies that control the belt line which is used in common by them all have established a system whereby all stock consigned to them is delivered into the pens of the stockyards during the night or early morning so that buyers may be on the ground at daybreak

if they so elect. Under the old methods of packing meats the entire edible product, with the exception of that sold as fresh susands of animals received daily is meat, was cured and sold in the form of hams, bacon, sides, dried beef, corn-ed beef, etc. The first decided innovation was the general adoption of the process invented by Appert for canning meat. This discovery gave a great impetus to the business and extended the radius of its activity over a vastly increased territory. Then came the re-frigerator car. This improvement enarged in rather close proximity for abled the packer to ship his product to the sake of convenience, and they cover the most remote parts of the country g least 320 acres. Among these vast and to establish depots in all the larger bringing about an enormous saving, the | that a German who lived in the neighmarkets, from which the meat might tellings alone cover more than forty be distributed through the surrounding western packers were able to compete borhood of the stockyards was collectwith the world. But although these ing the offal and manufacturing from regions. When refrigeration was extended to ocean going steamers the economies in transportation made the pathway of the western packer a far this practical hint sprang the Armour field widened immensely, and the busipaces of area are given to cold stor- ning and refrigeration were perfected

was made to use them for manufacture ed it with the dried blood and residue in this country until about twenty from his rendering kettles. This branch A Chicago packer discovered one day rapidly, and the Armours now have years ago.

offal were destroyed. Finally a moder-ately profitable way of disposing of the horns was found; they were shipped to Europe and returned to America as buttons and ornaments. No attempt

in the Cooling Room

Same and and and

Excition of the execu-itive committee of the national labor organ-ization known as the Amalgamated Meat limited, and the waste and expense of getting to market were as likely to the genuine article. of the packing business has grown very mean loss as profit.

Though the packing and dressed meat business is commonly regarded as a monopoly, it is not so in every sense of the term. There are actually more than a thousand different firms in the United States engaged in the industry, and the capital now invested is considerably over \$200.000,000. According to reliable estimates, the abattoirs and farmers slaughter annually about 10,000,000 cattle and calves, 40,000,000 hogs and 40,-000.000 sheep. That means about 7,000,-000,000 pounds of beef, 5,600,000,000 pounds of pork and 2,000,000,000 pounds of mutton. This makes an annual total of 14,600,000,000 pounds of meat. This estimate, of course, is exclusive of byproducts.

The most reliable estimate of the world's flocks and herds indicates that there are \$10,000,000 cattle, 600,000,000 theep, 100,000,000 hogs and possibly 70,-600,000 goats. That furnishes 1,080,-000,000 edible animals of these four classes to the 1,500,000,000 people in the



meat packing industry has been carried it will be sufficient to state that some of the great companies have established pharmaceutical laboratories, at which many articles of medicinal value it an excellent article of glue. From are prepared. Pepsin is one of the best known of them. The large packing houses have also built up an enviable smoother one than he had ever before glue plant, which is the largest in the

commercial fertilizer plants at several | world. Of this population \$00,000,000 points and can hardly supply the de- are grain eating Asiatics. For the \$0,-All of the cotton growing states 000,000 people in the United States depend on this product, and nearly all there is an available live stock supply the winter wheat producing states are of 192,000,000 animals. That gives an now obliged to use it. To illustrate the allowance of more than two animals extent to which this utilization of the for every man, woman and child in the formerly discarded byproducts of the country. That would be, in round numbers, 500 pounds of fresh beef, 100 pounds of fresh pork and 34 pounds of mutton for each person. This estimate takes no account of edible byproductsthey would increase the per capita avand distributed equally each person the thirtleth. would be entitled to about 664 pounds.

is washed in milk and salted and colored until it may easily be mistaken for

The causes which have contributed to the very marked increase in the prices of meats and meat products in the last few years have been numerous and to some extent unavoidable. It is convenient to make an end of the matter by dividing the responsibility between the cattle barons and the packers, but that expedient fails short of the facts in the case. Various other agencies have been at work to remove meat from the rapidly diminishing list of cheap foods for the people. One of the most potent of them all is the increase in population. At first suggestion it would seem that the only thing necessary to meet that problem would be increased live stock production. It is a matter of record, owever, at least in this country, that

with the increase in population there is a corresponding decrease in the raising of live stock. The pastures and ranges are being gradually converted into tillable fields, and the old time methods and prodigality must give place to more intensive systems. The expense of pre-paring animals for the market is thus greatly increased, and the consumer The prinmust suffer in consequence. cipal part contributed by the organized producers of ment products to the modern readjustment of prices was effected by making it impossible for the single ndividual who could not command large capital to continue in the busi-

As it stands, the business as it is conducted in America is among the largest and most important industries in the world. In no other country is there so much hard work done, so much machinery used, so much risk taken. In no other country are so many workmen employed and in no other country is so much capital required to conduct the business.

CHANNING A. BARTOW.

AN ILLUMINATING CRAB.

One of the marine curiosities fished some time ago from the bottom of the Indian ocean was a mammoth sea crab which continually emitted a bright white light similar to that seen in the spasmodic flashes of phosphorescent luminosity emitted by the common glowworm. The crab was captured in the daytime and placed in a large tank containing specimens of fish, nothing peculiar except its immense size being noticeable in the broad glare of the tropical sun. At night, however, when all was plichy darkness, the crab lit up the tank so that the other creatures in it could be plainly seen.

CAN ANIMALS COUNT?

Evidence that animals can count has peen collected by Signor Mancini. Horses in the collieries at Hainault erage with another thirty pounds; so if have a regular number of daily trips all the stock in the country were killed and invariably seek their stables after the thirtleth. A dog remembered the twenty-sixth burled bone a short time

Cost of War May Be Less Than the Price of Peace

Cattle Pens.

chicago



ably true that the one thing that makes most successfully for peace is the expense of going to war. Diplomaby bas been reduced

the dimensions of an exact science en that account, for a campaign of words is vastly cheaper than a campaign of bullets. The sagacious helmsan who steers the ship of state, although he be a man of infinite amor patriae and properly jealous of his government's reputation among the naons, will hesitate when he thinks of the cost of maintaining that prestige by bree of arms. If he be a man of dellb erative temperament and prudent-and every diplomat must be that-he will make a diligent search among the idoms of his native tongue and select therefrom the keenest weapon he can find and be satisfied with that inexpen-Eve form of warfare. But the time comes when words will no longer fight the battles of two disagreeing nations. No matter what may be the cost, noth-

ing short of actual war will suffice. It is no secret that the finances of teither Japan nor Russia were in a madition at the beginning of their resent hostilities to warrant the extravagance of war. Russian fiscal matlers were notoriously askew, and Japan had other and better plans for the avestment of her savings of so many tellsome years. Whatever may be the succome, it means long years of struggle and national deprivation. A brief study of the financial history of some famous national struggles will demonstrate that fact.

According to the most accurate figures which can be obtained, the Amercan civil war cost no less than the almost inconceivable sum of \$8,000,000,-000. This estimate, of course, is intended to cover more than war expenses Asy attempt to collect and tabulate extraneous losses would be an imposable undertaking. Taking the pension list, compensation for damages, loss of trade and similar items into consideration, the expenditure must easily have amounted to as much as the running expenses of the war, which, according to the late Professor Mulhall, expert of unquestioned ability, inted in the campaigns of 1863-65 to \$2,700.000,000. The same indefatigastatistician assessed the cost of the world's wars for the last ninety years at \$15,235,000.000. In this decade less han a century there was an even more stupendous and infinitely more imporant expenditure than this-the insatide Moloch of war had demanded the lives of 4,470,000 men.



FAMILIAR PACKING HOUSE SCENES.

THE CAPITULATION OF SEDAN, FROM THE FAMOUS PAINTING BY VON WERNER

The scene illustrated is one made famous by artists, poets and historians. It marked the collapse of the Napoleonic dynasty, inasmuch as the French people, but a few days after Napoleon III, had surrendered himself and his magnificent army at Sedan, declared the empire at an end and proclaimed the republic. Fighting, some of it quite severe, occurred after the capitulation of Sedan, but the outcome was never again in doubt. When the end came and terms of peace were under discus-sion, Bismarck, the "Iron Chancellor" of Germany, startled the world by his demand of a cash indemnity of five milliard (five thousand million) france, about \$1,000,000,000, In the illustration Von Moltke is shown speaking, while Bismarck is seated at his left.

mously in the aggregate, it was not so | Crimean war, on the other hand, was | in their effort to subdue their valiant | was obliged to settle Germany's war expensive when the cost per day is con- about 700 days in length, and the total foes. sidered as the Franco-German cam- cost is estimated at \$1,700,000,000. riod of four years-that it proved to be on record, but in comparison with the ery twenty-four hours. That was a cost of about \$3,000,000 a day. Acwar lasted 1,500 days and cost \$2,465,- From Oct. 11, 1899, to May 31, 1902, the

The seven months' war between sides all that, she lost the disputed The British campaign against the France and Germany entailed a re- territory in Alsace-Lorraine. Crimean war. It is only on account of Boers in South Africa has been regard- markable expenditure. The French its long duration-extending over a pe- ed as one of the most expensive wars outlay alone amounted to \$7,050,000 ev-

the costliest war on record. The civil civil war it was a rather cheap affair. spending money at the rate of \$80 a cording to the terms of the peace Although the civil war cost so enor- 000 every twenty-four hours. The British spent about \$10,000,000 a week lay, it must not be forgotten, France Russia for a greater portion of her war

prison for one year and one month.

ticket holders, was 1,194,000,000.

many, was sentenced the other day to first place in point of numbers, Russlans second, French third.

During some maneuvers at Taranto will be begun soon by an English company recently formed for the purpose of working the sulphur mines at Theis-

outlay, but Turkey is a notorious de- | Alliance-Germany, Austria and Italygates of Constantinople,

When the United States was in her board issued an official notice to the ef- Ireland. fect that when Admiral Sampson's fleet overcame Cervera's flotilla 7,553 shots were fired at a cost of \$100,000. The expense of defeating Admiral Montijo at Manila was given by the same authority as \$45,000. On that occasion 5,681 projectiles were fired, and it may be said that in consideration of the results the expense was not excessive. It must not be supposed, however, that the war was an especially cheap episode. It was certainly a serious matter for the Spanish treasury, already depleted by the constant revolt of her distant colonies. Debts to the amount of \$600,-000,000 were added to her numerous other obligations by her short investigation of America's naval resources. As for the Americans themselves, the expense was almost too great to be regarded as an unconsidered trifle, especially since the outcome entailed the in the Philippines. In the light of her last few years' experience as a manager of colonial dependencies it is not unlikely that Spain was not so unfortunate as her humiliation led her to believe.

That war is one of the most costly of faction.' national diversions will be made apparent to both Japanese and Russian taxpayers before long. No war ever waged, however-except those frightful Internecine outbreaks, like the French revolution, that turn their country into t veritable shambles-is as expensive This statement, of course, applies only en in, while if unacceptable it is left to to those nations which maintain immense standing armies. M. Bloch, the noted Polish publicist, author of the famous work entitled "Is War Now Impossible?"--- the book, be it remembered, which is said to have influenced the czar to advocate his peace conference scheme estimated that Europe paid a tribute yearly of \$1,125,000,000, or near-

ly \$3,100,000 a day, to maintain her military and naval establishments. On the principle that a great army and navy are the strongest factors for the preservation of pence, that tremendous outlay may be called the price of the cultivation of the olive branch.

That this sum is well spent so long as The Russo-Turkish war of 1877-78 it assists in preserving peace no hu- the ring close to the ear one can hear lasted 322 days and was carried on at manitarian will deny. M. Bloch shows that fact conclusively in his estimate of ring on a box the charming tones of the cost of a war between Russia and this unique ring can be heard all over a France on the one side and the Triple | large room.

faulter of her obligations, and it is on the other. In the event of such a known that Russia lost at least \$6,000,- conflict, M. Bloch points out, the daily 000 on the transaction. For that by no expenditure of the five great powers inmeans insignificant sum, even for a volved would amount to \$20,978,000, power of Russia's resources, she was That would mean an outgo of over \$275 permitted to lead her troops to the a second. If the campaign should be prolonged for a year the total would be the value of about one-eighth of the recent conflict with Spain the naval United Kingdom of Great Britain and ADAM TRUMBLE.

THE KINDNESS OF THE POPE.

His holiness the pope is abandoning many of the conventionalities which marked the reign of his predecessor, and, while, of course, fully alive to all the dignities connected with his holy office, he is endeavoring to dispense with the superfluity of stiffness which has hitherto prevailed.

There are fewer guards to be seen about the Vatican nowadays than when Pope Leo was alive. Nor is every one hustled out of sight when his holiness passes through the corridors or grounds. The other day Plus X, had occasion to go through the Raphael rooms when they were open free to the public. He was accompanied by a couple of guards and his private secretary. the former making a move hurriedly to clear the rooms. The pontiff is said to further expenditure of much treasure have touched one guard on the arm, saying, while he looked about him, smiling

"Do not disturb the people. If they have the same pleasure in looking at an old man that he has in seeing them t would be a pity to curb their satis-

COURTSHIP IN NAGASAKI.

When a young Jap has made up his mind as to the maiden he desires to wed. his next step is to fasten a branch of a certain shrub to the house of the lady's parents. Should he prove a welcome suitor the branch is cut down and takwither and die.

The Jap bridegroom, as in duty bound, offers the most costly gifts he can afford to his bride for their wedding day, but she, instead of treasuring them for herself, gives them to her parents as a small acknowledgment of the care and love they have bestowed on her from infancy.

MUSIC BOX IN A RING.

A Wesleyan minister in the north of London possesses the most wonderful ring in the world. In appearance it is an ordinary gold signet ring, but it is, in addition, a perfect little musical box. By touching a tiny spring and holding a sweet hymn tune. By placing the

ITEMS GATHERED FROM HERE AND THERE.

Great damage has been done in the | tremes of average prices in the differalladolid (Spain) district by a terri- ent states and territories. bly severe hailstorm. The United States sold \$193,000,000

There are fifteen states that surpass Kentucky in the number of their horses, an increase of \$6,000,000 over the best while the average value in twenty-three states rates higher than the The kaiser has become an ardent vio-

erses of the Blue Grass State. The linist and practices diligently and ex-

savage watchdogs a young man named previous year. Of the exports for 1903 Krieg of Spandau, in Prussia, overbal- gold alone amounted to \$61,265,574. For saying to an officer, "You stupid anced himself and, falling among the fellow, what do you want here?" infuriated animals, was torn to pieces." drunken soldier at Magdeburg, Ger-

The number of accidents to members worth of breadstuffs abroad last year, of the London fire brigade during 1903 was 210, only one of which was fatal. According to official publications, the

total exports of the Transvaal for 1903 an Italian torpedo boat was sunk and

were \$62,817,229 as against \$36,166,036 one of the crew drowned. Great Britain had 22,380 miles of head and of New Mexico \$17.52, the ex- while sitting on a wall teasing some \$94,947,733 as against \$63,593,765 the railways last year. The gross receipts stareykir, in the north of Iceland. The and for quantity. The wet winter, fol- 1 up to nine

passengers carried, exclusive of season

next year.

Huavik, the nearest harbor, to which duced vines much above the average. French is no longer the world lan-

guage. This fact is recognized in Sax-The central committee of the Munich isles numbers 198,000. Germans hold international art exhibition of 1905 has ony, where English is to be hereafter an decided to honor the memory of the optional subject in all public schools, on late Franz von Lenbach by holding an the ground that it is "the most widely The first rallway in Iceland probably exhibition of that master's pictures used civilized language in the world."

Two new battleships of 10,000 tons The Australian vintage this year will will be laid down at Triest, bringing be long remembered, both for quality the number of new Austrian warships

were \$550,000,000, and the number of mines are about seventeen miles from lowing a series of dry seasons, prothe proposed railway will run.