

1860.

THE PIONEER

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We have lately employed Mr. W. O. NISLEY as our Piano Tuner. He is a thorough, practical Piano Tuner and Repairer, and comes recommended by the best Piano Makers in the East.

We Sell for CASH or on Time Payments, and GUARANTEE Our Prices the LOWEST and Terms the Best.

45 and 47 WEST, FIRST SOUTH STREET.

Prize Essays

On Utah, her Climate, Scenery & Products.

[The essays here published weekly are from the Rhetoric Class of the U. V. Academy. They took the prize for "The best collection of compositions on Utah, her climate, scenery and products." They are presented, as above indicated, only as amateur work, but it is hoped, as amateur work in the right direction.—S. L. N. Teacher.]

The Utah Sugar Factory.

For several years the question of manufacturing beet sugar in Utah had been agitated and not without a degree of success, for early in the spring of 1891, a body of Utah's ablest men met in Lehi to decide upon a place for the location of a factory.

Different places were discussed and their facilities shown up, among which were Salt Lake City, Ogden, Logan and Lehi. The latter, being the preference of about two-thirds of the assembly, was at length selected.

The contract of building was given to Mr. Dyer, a California sugar manufacturer, and under his skillful direction, the beautiful structure reached completion in September of the same year, and thus, in less than nine months one half million dollars was expended to add to the industrial enterprises of Utah.

The building has an immense capacity and its massive brick walls enclose several hundred cars of the finest German machinery.

Near the factory there are three sheds, each of which is five hundred feet long. The beets are stored away in these sheds and are carried into the factory by a stream of water which serves to wash them at the same time.

Here they are dropped into a large elevating wheel which carries them to the cutter.

Next, we see them in V shaped pieces about one inch long. They now slide down the shoot into the batteries, where an intense pressure is placed upon them in order to extract the juice.

Here the pulp and juice are separated, the former being carried away and stored in cellars for use as food, and the latter continuing its course through the mill.

The juice is now taken into the cane-presses, where it is mixed with lime-water and carbonic gas. This precipitates the solid matter in the juice. After about twenty minutes it is pumped through the filter press, where all of the lime and dirt are taken from.

Now the clear, sweet juice is carried into the evaporators, where it is mixed with carbonic or molasses acid.

On becoming a syrup, it is strained through bone-black, which takes away the sulphur color so common in granulated sugar.

It is now stored away in large tanks, and there left to crystallize. A few days later the crystallized juice is poured into the miller and after being thoroughly mixed passes into a large vat below, under which are five centrifugals.

The centrifugals are for the purpose of drawing out all of the juice and

leaving the white crystals of sugar. From here the sugar is dropped into the drying room, where the moisture is removed from it and it is ready for packing.

There is demand for all the sugar that can be manufactured at this mill, for it is, in quality, second to none in the United States.

LEHI, Utah. FRANK EVANS.

THE GOOD ROAD HORSE.

Some Points for Farmers About His Breeding and Education.

A good road horse should have size, beauty, a pleasant, cheerful disposition, good free action, both in walking and trotting; should be pure bred, go to require neither boots nor weights, should be free from blemish, and last, but by no means least, should be well broken and educated. All the former requirements can be bred—in fact must be bred; but the education, without which all else is naught, can be added by the practical farmer in a more thorough manner and at much less expense than by the readily bred.

The greatest expense attached to breeding trotters is in the development of the speed. No matter how genuine nature may have been in the speed inheritance, the act of man must be used to bring out this inheritance, and good training is an expensive luxury, while a poor trainer is still more expensive at any price. Not every small trader, even if he has his time and desire to devote himself to training, can hope to become a proficient in this art; but every man of ordinary intelligence, and having a liking for handling horses, can become proficient in educating young horses and bringing them properly to the point where a horse can secure a good road horse, or the expert driver can take up the education and bring out the resources of a horse properly bred and properly educated up to this point is always obtainable at a good price.

The first point is to start right, for without this all subsequent efforts will be in vain. It is an accepted law among breeders that the progeny like, or the likeness of, some ancestor, and the likeness is much greater than the quality of the parents with its reproduction. It follows then that if we start to produce a certain type of horse we cannot expect to obtain produce that type by mating parents of an entirely different type.

It has been a too common error that any old without more would answer for a dam, providing she was bred to

the same type as the sire. This is a mistake, for the dam should be of the same type as the sire, and of the same quality.

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The Far North.

Interesting News from Sweden, Norway and Denmark.

SWEDEN.

A snow shower in Jemtland brought myriads of small worms along with it and no one seems to know whence they came.

A brewing company just organized at Gothenburg will only turn out beer which does not contain over a per cent of alcohol.

An organization called the Society for the Welfare of Sweden is endeavoring to turn the current of emigration to Norway.

Edward Schmidt, the Swedish-Norwegian consul general at Berlin, has been appointed court banker of the Emperor of Germany.

The king has appointed a committee to distribute the \$5,000 appropriated for the support of different artists who are to attend the World's Fair in Chicago.

"The Blue Cross," a kind of temperance organization, which has had a fair in Switzerland and certain German localities, has just gained a footing in Gothenburg.

Mr. Muller, of Alvestra, has christened his twelfth son "Charles the Twelfth."

In the same neighborhood a peasant called his twelfth daughter "Tollina" (Twelfthina).

A fire in a store at Roderos, Smolene, Norway, gained such headway when discovered, that several men who were present did not dare to enter the building to save the goods. Not so Tilda Rydqvist, a Swedish girl from Västergöt.

Having broken the back of a balance-scale, she entered the store and saved goods to the value of \$1,000. Among other objects she took out a desk, which it had taken two men to handle. The heavy girl came out of the ordeal unhurt, and she will receive a handsome reward for her performance.

NORWAY.

The annual consumption of dynamite in Norway is estimated by the Farøen paper to represent a value of about \$2,000,000, of which something like \$2,000,000 is in liquor and \$2,000,000 in other goods.

The truth is that English and Scotch capitalists have invested heavily in American ranches on the prairie of the United States, and are now in the habit of sending their sons to the United States to take up the work of ranching.

An Ancient Piece of Meat.

The most ancient piece of meat which is still in existence is believed to be the "Pork of the Pyramids." This was a pig which was found in the ruins of the pyramids at Giza, and is now in the possession of the British Museum.

How to Mend The Fall.

Apply putty on the outside and let it dry thoroughly.

DENMARK.

The sculptor Niels Høgh has sold his new work "The God of Song" to a rich merchant for \$1,000.

Ludvig Koch, who was the captain of a steamer on Congo river in Africa for some years, has returned to his home in Denmark to take a rest.

Through passenger trains from Copenhagen to Christiania there cover the distance between those two cities in 20 hours. The cars are of course carried across the sound on ferries.

The barbers of Copenhagen are having a good deal of trouble. A majority of them have agreed to charge from 3 to 4 cents for shaving. But a number of scabs are charging only 2 cents.

The barbers are now discussing the feasibility of freeing the seats by opening a few temporary shops, charging only one cent per shave.

THE HOUSEHOLD.

Although houses can be reduced to plant food by an easy and simple process, there is a large number of them in which the most valuable of all fertilizers, part of all matter on the farm, goes to waste.

Household refuse is not available as food for plants. Therefore the farmer takes no interest in them as a source of plant food and they are suffered to lie on the farm until they are taken to the city.

I have practiced this process in my house for many years. I collect all the bones, horns and small odd bits and keep them, at boiling time.

When winter comes and I have broken the road with my horse and a few loads of manure I put in a box or barrel a layer of bones and manure three inches deep, then a layer of horse manure and break them with an axe if you wish. I never do, and then another of bones and then of bones until the vessel is nearly full, then fill with water. I now keep this out with water, being careful to put enough to keep it from freezing.

When spring comes, if the bones are not dissolved sufficiently, put the bones and water in a large kettle and then pour on two loads from this larger of bones and let them boil until they are eaten up.

When done mix it with dry earth to make it better to handle. Put away in barrels until needed. I have then made a fertilizer that gives better results than commercial fertilizers for which I paid three dollars per hundred pounds.

In these bones I suppose and it is much the speediest process, but with this great care and caution must be observed, as the acid is very corrosive.

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go to Sandberg Furniture Co., 188 119 W. South Temple Street.

Persons desiring to make Christmas Presents should not fail to call on L. W. WATSON, the upholsterer, at 31 East 1st, South St., and inspect his immense stock of diamonds, watches and jewelry of every description. Established 1861.

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Keep Your Money at Home! For your Holiday Beer, try our pure and unadulterated Pilsener Lager Beer. Prompt delivery guaranteed. SALT LAKE CITY BREWING CO. Telephone 17.

For the Holidays. On December 22nd, 23rd, 24th and 25th, the January 1st, the Rio Grande Western will sell excursion tickets between all points on their line at one single fare for the round trip.

An opportunity to visit any point on the Rio Grande Western railway during the holidays is afforded by their announcement to sell excursion tickets from Salt Lake City to all intermediate stations.

25 Bars Olive Green Soap for \$1, at Salt Lake Equitable Co-op.

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