## Correspondence.

SERICULTURE. - FEEDING THE WORMS.

> BY LOUIS A. BERTRAND. XII.

I have heretofore omitted speaking of during the twenty-four hours. Some | behold one hundred thousand worms say eight, some say ten, and so on; but I spinning all at once their cocoons. Prowould lay down no absolute rule, but fessor Robinet has made the following would say, keep some fresh food con- curious calculations: When the worm stantly within the easy reach of them is spinning its cocoon, it makes a moall, night and day. After the last | tion of five millimetres long every secmoulting, the worms exhibit an incre- ond. The thread which composes the dible voracity-they are then insatiable, | cocoon having an average length of especially during the first forty-eight 3,000 metres (about 3,000 yards,) the hours. To form an accurate idea of worm is compelled to make 300,000 motheir prodigious appetite it may be well tions with its head to accomplish its to state that a learned agriculturist, a work. Should the cocoon be perfected well read man in sericulture, has prov- in 72 hours, the worm has made 100,000 ed that a worm, which has arrived at motions every 24 hours, 4,166 every the fifth age, consumes every day six hour, 69 every minute, a little more times its own weight, and that, when the disproportion in size is duly considered, that it eats precisely as much as thirty-six horses. And he thinks that the same proportions exist from the beginning till the end of their lives. (Mr. de Gasparin, Journal d'Agriculture pratique, Dec. 1848, page 568.)

and growing tree; for this, after all, is substances of the chrysalis, otherwise smell be perceptible but that of the fresh mulberry leaves; raise no dust; make no noises: move about quietly; give them their food carefully. Indeed, let them go through their changes and transformations as though in the quiet recesses of their native forests, only protecting them from excesses of nature which are injurious to them such as exposure to the rays of the mid-day sun, to the storms of wind or rain, to flashes of lightning or peals of thunder; also from their natural enemies, such as birds, rats mice and ants.

In moving the worms from one place to another in order to thin or spread them out, never touch or handle them. While feeding them with leaves, when you want to separate them, put on a few fresh leaves, and as soon as they are well covered with worms take hold of a leaf carefully, and lifting it up slowly lay it down on the place to which you wish to remove it. The same way when you want to remove all the worms from any given place or paper for the purpose of throwing out the litter-the stems and offal of the worms. This should be done at least every other day while feeding on the flat surface, with leaves. To separate them after they have commenced feeding with branches, move the branches lately put on while the worms, or a portion of them, adhere to them. And when you wish to throw out the litter and offal, take hold carefully, lift. ing up the pen or top portion of it; let another person empty off the litter into a basket or sack.

Immediately after the worms have fully finished moulting, they should all be removed from the place where they have deposited their skins, as these become very offensive and injurious to them.

## SPINNING COCOONS.

When the worm is within four or five days of its spinning time, it has acquired its greatest size and most ravenous appetite and formidable appearance. From this time until it begins its cocoon, it seems to lose its appetite and diminish in size and weight. It also from that time gradually changes its color from a rank greenish to a light pearly yellow, and generally assumes the appearance of maturity. The last three or four hours before going to spinning, it becomes in a degree diaphanous and translucent, as a white ripening grape. It becomes restless and uneasy, frequently raising its head as if to reach something. These signs admonish the keeper to prepare for the harvest, which if not a golden, is certainly a silken, harvest. At this stage the worm begins to hunt some nice nook or corner out of sight, in which to wind its body in a silken shroud, and the sooner it can find a suitable place to suspend its cocoon the more perfect and complete that cocoon will be made, and the more valuable will be the harvest to be gathered. Hence it is very important that good provision be promptly supplied in which the worms can all spin their cocoons. Many plans for this purpose have been invented. The paper.

best-or such as combine the qualities of economy, cleanliness and adaptation the worm-should be adopted. Any but aromatic shrubs are to be prefered.

After the worm commences the cocoon it must not in any manner be disturbed, and if allowed to proceed unmolested it will finish in three or four days. the number of times worms should be fed It is a beautiful and interesting sight to than one every second. What a mighty

hard-working fellow! In from six to eight days after the cocoons are formed, they should be gathered, and all, except those selected for producing eggs, must be exposed for three or four days to the direct rays of the sun, to kill the chrysalis with-You must adapt the artificial feeding, in. It will be well to expose them as near as you can, to their mode of longer, so as to be sure to completely eating in a state of nature on the living | dry up or evaporate the fluids or moist the cocoonery, and the treatment and chrysalis. It is also important that this feeding of the worms, as near as you chrysalis be thoroughly dried, to precan, to their wild nature. Keep the vent the bad smell that would otherbuilding clean and sweet; let no other | wise be emitted from the cocoons when stored away, and also to prevent their heating. If you are prepared to reel the cocoons at home, this work may be in private life she is equally estimable. now commenced; or if the cocoons are market. But in any event, it must be remembered that mice will destroy the

mice are so fond of silkworms that they

will destroy them from the eggs to the

cocoons.

PRODUCING EGGS. Before exposing the cocoons to the sun, if it be desired to save any eggs for the reproduction of the worms, cocoons must be selected for this purpose and placed in any convenient place for hatching out the moth or miller. In order that the size and vigor of the portant that only the very best cocoons should be chosen for propagating the species. Among the most precocious, select the largest and most regularly formed. This selection must be performed with the most careful attention. For all white races, purity of color is of the utmost consequence. For the yelbright color must be rejected, because

of the cocoons are no reliable evidence of the sexes. In a number of cocoons taken at random, there are always nearly as many males as females. One hundred pairs of large yellow cocoons, which weigh a pound, will produce an ounce of eggs; and an ounce of eggs is considered to produce about forty thousand silkworms. The white races, being generally less heavy, require of course a larger number of cocoons to make a pound.

The following mode is generally France, in order to separate the sexes. selected cocoons are taken at random and placed in a balance. They weigh, for instance, two hundred grammes (about six pounds). The average weight is, therefore, two grammes. It is almost certain that all cocoons which weigh more than two grammes will be females; those less weighty will be males.

FIXATION OF THE COCOONS. Now it is necessary to fix the cocoons. The moths would experience great difficulties to emerge out of their cocoons should they remain free on the shelves. Upon sheets of grey paper, lay with a pencil some liquid gum arabic; common paste will answer. Then take your cocoons one by one and dispose them in rows, side by side, in placing them on the gum. The rows must be separated facilitate its release. It is well understood that male and female cocoons must be pasted upon separate sheets of

In closing this chapter, I take the opportunity of crediting Mr. J. N. Hoag, to the seeming fancy or real wants of of Yolo, with many valuable statements and rules I have found in his interesting kind of clean bushy twigs can be used, report on silk culture in California. (Transactions of the California State Agricultural Society during the years 1866 and 1867, page 469).

> TRICHINIASIS IN NEW YORK CITY .-We understand that several deaths occurred in the city during the past week caused by trichiniasis contained in the meat the persons had eaten. It is stated that seven of the boarders in a German boarding house, in Carlista street, were taken sick last week, and removed to different hospitals, that two have since died in the New York Hospital whose flesh, as proved on the post-mortem examination, was filled with trichinæ, which could be plainly seen by the aid of a microscope. A piece of flesh was taken from the arm of one of the men while he was alive, and in this myriads of them were discovered. The keeper of the boarding house, it is said, is in the habit of purchasing hard dried beef and pork, which was probably in an impure state before it was salted, and the animalculæ were thus swallowed with fatal consequences. Other deaths from the same cause are said to have occurred This is a matter that requires attention. in different parts of the city.-N.Y. Evening Express.

DEPARTURE.-Madame Scheller and her the great secret of success. Study to there is danger of injuring the silk by husband, Mr. Methua, started eastward toadapt every operation connected with staining it with the putrid matter of the day. They have had a very extended stay in Salt Lake City, and while here have gained many warm personal friends whose good wishes will attend them wherever they go. As an actress Madame ranks high, and when engaged in her professional duties her every act and gesture bespeak the lady of culture, virtue and refinement;

Mr. Methua is a scenic artist of much to be sold they are now ready for ability, and has used his brush with great effect in illustrating many of the pieces that have been played during the engagement cocoons if not kept out of their reach; of his lady.

Wherever they go we feel assured they will reap golden opinions as artists, and while doing so we trust that Fortune will not be niggardly in the bestowal of more substantial favors.

FOURTEENTH WARD CO-OPERATION STORE.—A meeting was held in the 14th Ward Assembly Rooms last evening, at which a large portion of the male members of the Ward were present. Elder Geo. D. Keaton was chosen Secretary of the meeting. The object of the meeting was the worm may be continued or improved organization of a Ward Branch of Zion's from generation to generation, it is im- | Co-operative Mercantile Institution. Remarks were made by Bishop A. Hoagland, Elders W. Woodruff, S. W. Richards, Joseph Horne and several others. The Bishop was voted in as President of the Ward Branch of the Institution, Elder W. Woodruff as Vice-President; Joseph Woodmansee, Lewis S. Hills and Thomas Taylor as a Board of Directors; T. C. Armstrong as Secretary, and E. W. East as Treasurer. A low cocoons, those having a too deep or committee of three-W. I. Appleby, S. W. Richards and H. P. Richards-were aptheir threads are generally unequal and pointed to prepare a Constitution, and in conjunction with the Board of Directors, to The shape and external appearance draw up By-laws for the regulation of the Institution, to present to the next meeting, which was appointed to be held at 7p. m. next Tuesday, the 16th inst. Five dollars was mentioned as the price for a share; but this was not fully decided upon.

DARING ATTEMPT .- Between four and five o'clock this morning, the jailer at the Court House was aroused by a somewhat unusual 'noise in or about the building. Upon going in the direction whence the sound proceeded he saw "Brockie," one of the four garroters recently brought from Echo, making his escape. The jailer sent the contents of a pistol after the runaway, adopted in the largest cocooneries of which wounded him in the leg, and brought him to a sudden standstill, when he was The female cocoons are weightier than recaptured. His taree companions, probthe male ones. A certain number of ably knowing when hey were safe, did not attempt to escape. I e four worthies had torn up one of the fla stones of the cell in which they were ce fined, and, with a piece of wood, had worked a hole through the foundation large enough for a man to pass through. They are all in safe keeping, and it is presumable that measures will be taken to prevent the recurrence of a similar attempt.

MILITARY CHANGES. -Official reports, published in eastern papers, mention a great many changes in the location of United States troops. Amongst other we have noticed that the 35th regiment of Infantry, stationed at various points in Texas, is ordered to be changed to this Territory; and that the 36th infantry, five companies of which are stationed at Camp Douglas and five at Fort Bridger, are ordered to Texas. We have learned, however, that these changes extend to the officers only, by an interval of an inch, in order that the enlisted men remaining as at present. Our selection of the moth may find no obstruction when The officers of the 35th, now in Texas, will its heads commences to come out, and come and take command of the troops at also that it may reach with its feet the Camp Douglas and Fort Bridger, while the opposite coccoon to grapple it and thus the officers now in command at the two latter places will take their commands in Is unexcelled in this Territory.

LAND ON THE SPENCER DITCH .- A meeting was held on Monday evening last

at the 14th Ward school-house, according to a public notice which had been given, to take into consideration the propriety of protecting a large amount of valuable land, lying in the vicinity of the Spencer Ditch or Canal, from the inundation of the water. Though a few days have elapsed since the meeting was held we give the notice of it space to-day so that those persons interested in the land in that vicinity may know what is expected from them. Bishop A. Hoagland was called to the Chair and Bishop W. Hickenlooper was appointed Secretary of the meeting. A number of individuals addressed the meeting, among the rest the presiding Bishop, Edward Hunter, who urged the necessity and propriety of energetic measures being taken to reclaim and preserve the valuable parcels of land, lying south-west of the city, which are now valueless, in consequence of their being annually flooded by the waters of the streams running into the Spencer Ditch. That ditch is a good one; but there has been more water turned into it than it has capacity to carry without being strengthened.

It was unanimously agreed by the meeting that each individual owning land, that will likely be injured in high water from the waters of said Spencer Ditch, be required to protect the same. A committee consisting of Bishop Thomas McLellan and Royal Barney, were chosen to see that the resolution of the meeting be carried out. Owners of land in that vicinity may, therefore, expect a call from this committee. Those best acquainted with this land, and the waters by which it is inundated, affirm that, with a united effort and the adoption of judicious measures, all this land can be protected from floods and be made valuable for grazing and farming purposes. In a sanitary point of view alone it is worth the outlay required, as large bodies of water some of which stagnate during hot weather cannot be healthful in such close proximity

to our city.

# The Railroad Hotel

FEED STABLES,

## BRICHAM

P. JENSEN is now prepared to accommo-11. date TRAVELERS and ANIMALS, at the

BEST HOUSE and STABLING in BRIGHAM CITY,

At the lowest possible rates,

and always ready to accommodate. Associated with the above is a

GOOD BLACKSMITH SHOP. d62 w1 tf

## TO SHEEP FARMERS!

FOR SALE CHEAP. A large lot of LEAF TOBACCO, suitable for

Sheep Washing. Zion's Co-operative Mercantile Institution.

H. B. CLAWSON.

Gen'l Supt.

s11&w61m

# Spring of 1869

## L. S. HEMENWAY

Begs to announce that he has commenced selling his Large and Choice Assortment of

Comprising

Apple, Pear,

Plum,

Peaches, Apricots, Etc., Etc.,

From 1 year to 5 years from the bud.

The large number of our trees in this City and the Settlements are a sufficient guarantee, and the best recommendation we offer that our stock is of the very best class.

And we will sell at rates to suit our former and future patrons.

# CHOICE FLOWERS

4th WARD,

SALT LAKE CITY. 811 4&W6 2