Correspondence.

SERICULTURE, SILKWORMS.-THEIR DIFFERENT VARIETIES.

BY LOUIS A. BERTRAND.

There are two principal races of silkworms in the world-one that produces white cocoons, from which the white silk is reeled; the other that gives yellow cocoons from which proceeds the yellow silk. During the feeding season, silkworms of the white race can only be distinguished from the yellow ones by the color of the feet of the oldest ones. Of course, the feet of the former are white, and those of the latter yellow.

In France, the best varieties of the white race are the Sina race—the white race of Annonay, that of Novi, and that of Bourg-Argental. The Sina race, particularly the Sina race of Annonay, produces the most beautiful and pure white silk. But it must be remembered that much depends on the nature of the cocoons; the skill of the reeler is also of

capital consequence.

The first of the Sina race was imported in 1784, by King Louis XVI. The Sina cocoons are less heavy than the yellow ones, raised in France, but they are very rich in beautiful silk, when perfectly pure. The worms, themselves, are of a bright color, and, on that account, are called leis argentas, "the silvered ones," by the breeders of Provence, my native country. In 1839, the Sina cocoons were worth 8 francs 50 c., and 9 francs 40 c., a kilogramme (one dollar seventy cents, and one dollar eighty-eight cents in gold, for two and one-fifth pounds. The raw silk was sold at 200 francs a kilogramme, about \$20 a pound.) These are the highest prices obtained for cocoons and raw silk in the present century. According to my notions, the City Creek water is particularly adapted to the reeling of the Sina cocoons. I expect an ounce of silkworm eggs of that variety from Annonay.

A large number of yellow races exist in France, and new ones are continually created. Among the last, I will mention a very large one produced by M. d'Arbulestier, of Loriol (Drome;) also the Milan race and the small Spanish one, as being extensively raised. The first white and yellow races of silkworms so successfully bred in Utah, by sister Josephine Ursenbach, during six years, are now both totally extinct. Before starting for his mission, Br. Ursenbach kindly sent a few eggs to Tooele. Several magnificient mulberry trees are flourishing in that lovely town. These eggs were naturally hatched in my room, but in spite of my careful attention they died in a few days. The same result has been obtained by my friend George D. Watt. I was struck with admiration at the beautiful cocoons and healthy eggs of his last crop. These eggs were a little too thick on the papers-a very light fault for a novice. An important question naturally arises here, which will prove more profitable for our breeders to raise, the white or the yellow silk? I answer, the general climate of our mountain home is so well adapted to sericulture, that both can be profitably cultivated in almost every county of Utah. But that rich business being still here in its infancy, the above industrial question will be better solved by our future experiments.

Bourbon or Reunion, a French island in the Indian sea, I saw a particular class of worms called Trivoltines, because they hatch there six or seven times every year. Under that tropical latitude, the Multicaulis reaches an enormous size, and like every variety of the grape is an evergreen. All the exertions made by experienced silk culturists to naturalize the Trivoltines worms in France have proved abortive. There are other species of silkworms that merit a brief notice, and particularly

During a residence of six months at

the following:

CASTOR OIL PLANT SILKWORM (Bombyx Arrindia.)

Bengal and of British India. It lives, both in its wild and in its domesticated condition, upon common castoroil plants her. On missing her, instant and thor- there. and other vegetation. It was but recently introduced into Europe by means of a few living cocoons imported home, until not one foot of ground or Creek, in Salt Lake valley, who I into Malta. Their propogation was not | pond or stream of water where there was | understand is a very good interpreter, | only successful, but was continued in the least possible chance for her to go told me a short time since that Sag-wich Italy, whence many were sent to remained unexplored. She was missed had been there and told him that Po-France and to the Canary Islands.

species of silkworm have been crowned | could not have gone through the field stole her and sent her to Salmon with success. Its cocoons can not be to the east, as it was lined with men River.

furnish a staple, which, when spun into to the south for water; towards the thread, produces fabrics of great sup- north and west lay the only chance to pleness and durability, though almost stray away, and never before (to my destitute of lustre.

AILANTHUS SILKWORMS (Bombyx Cynthia Vera.)

value.

THE TUSSEH SILKWORM (Bombyx Milita)

This notable insect lives in a wild state in Bengal and in the hot regions of clay some trace would have been left. India, in the woods, where the inhabiare remarkable for their size and form. Its favorite food is the leaves of the jupeatedly to introduce it in France, but in ed. and known in India as Tusseh, of which large quantities are exported to Europe.

THE WILD SILKWORM OF JAPAN, (Bombyx Yama May.)

This worm, raised from eggs sent from Japan by the Consul-General of I saw Sag-wich and his band at Wells-France at Yedo, has been successfully ville, and by request, a number of them reared. The oak leaf and trees of the same kind are its only nourishment. tello and his band moved from Mendon It does not require great heat and is to Logan on the day our child disapeasy to raise. Its cocoon, of a greenish peared. I went and saw him 'likewise, yellow, is formed like that of the ordinary silkworm, and can be reeled into a beautiful silk.

BOMBYX CECROPIA.

This description of worm, indigenous to the temperate regions of North America, is found principally in the Carolinas, Louisiana and Virginia. In its agreed to do so, and the next day he uncultivated state it lives upon the elm, the willow and other trees. It produces his Indians came, and the Bishop of a large cocoon of a loose texture and Mendon and all the ward were at my coarse silk.

At the last Exposition of Paris there was a collection of silkworms in their different stages, A quantity of eggs, bring us the dead body, and a horse in mulberry leaves and all that relate to addition to the above for her living. the rearing of the silkworm, were also They promised to hunt. Po-ca-tello got displayed there.

The silk worm is tender and delicate. The experiences of the last twenty years have proven that it is liable to epidem- His conduct in this affair we consider ics which rage with peculiar violence another and a stronger circumstantial and fatality.

> WELLSVILLE, Cache Co., October 15th, 1868.

many people (who otherwise through thoughtless people by which they were lack of faith would do nothing) on the intimidated. aid in her recovery.

dians, and among bad Indians Po-ca- left the valley.

old; was unwell at the time and only (Br. Kerr, who showed me the letter) the day previous to her being stolen that three Indians came to his camp, on kept her bed most of the day. She had Blackfoot, to buy flour, and began talknot been out of the house more than 20 ing about the little girl stolen from This species of silkworm is a native of minutes, and nearly or about half that Cache Valley, and said they knew Potime was with an older sister, whom her ca-tello had her, for one of them had mother had sent with her to take care of been at his camp and had seen her ough search was instituted, which con- Brother Petingall, a young man who tinued for about ten days around about lives a little south of North Willow about the middle of the day, and the ca-tello stole the child; and also that at | sold at the Estray Pound, at 1 o'clock p.m. Wherever the castor oil plant grows search was so soon commenced that it another time he had overheard two spontaneously, as in Algiers, Brazil and | would have been utterly impossible for other Indians talking privately about Rio de la Plata, the efforts to raise this her to have gone beyond our reach. She the child, who said that Po-ca-tello

A STATE OF THE PARTY OF THE PAR

knowledge) had she strayed the distance of ten rods from the house alone.

The race we almost entirely emptied of water, so that every inch of its bottom This kind of worm is indigenous to could be seen. The slough into which the temperate regions of China, where it emptied, which was several rods wide, it lives mainly on the Ailanthus. It and was grown up thickly with bullhas long been cultivated by the Chinese rushes, so that nothing could float in it, in the open air, and produces an elon- and the water, also, being very shallow, gated cocoon of a reddish shade, furnish- was thoroughly searched. The pond, ing a kind of silk floss, from which is the nearest point of which was about 40 made a very strong and durable tissue. rods distant, was dragged; cannon, also, This silkworm was introduced into at various points were fired over it, but France in 1848, where the first success- to no purpose. Some suppose that the ful rearing of it is chiefly due to Ma- reason she has not risen is because she dame Drouyn de Shuis. But it is to must have caught hold of something Mr. Guerin de Meneville, an eminent that keeps her down; but such persons entimologist who, under the patronage have not seen the place. The ground of the Emporer, experimented exten- where the pond is, is perfectly smooth, sively and with success, that the credit and it is not steep to the water; and a belongs for having given to this silk its child would have to walk in the water growing importance and industrial several steps to reach a point that would be over its head. And further, the first thing done both by whites and Indians, who came to look, was to search along the water for tracks, and as the soil was

The whole country from the river to tants go to gather the cocoons, which the snow line in the mountains, as far as Mendon, three miles north, and about one and a half miles to the south, was jube tree. Efforts have been made re- thoroughly and systematically search-

duce a fine and brilliant silk, very strong the house by several different persons, yet none of them came to the house for bread as they had previously done when they came around, and none of us had seen them. This we considered and still consider an additional circumstantial

evidence against them. came and assisted in the search. Po-cato employ him and his band to assist in the search, as I was well convinced Indians must have stolen her. I offered a reward for the body dead or alive, but he would not agree to come unless I would promise to give him a 50 lb. sack of flour whether he found her or not. I came alone. Sag-wich and a number of place hunting, and had a talk with the Indians, and promised to give them ten sacks of flour and a beeve to find and his dinner, called for his flour and got it, and neither he nor any of his Indians ever made their appearance to hunt.

evidence of his guilt. A number of other circumstances conspired to confirm my belief that Poca-tello had stolen her; and in company with several brethren from Millville Editor Deseret News:—By publishing I visited his camp, at a later date, in this letter concerning our lost child, Malad Valley, made him some presents, you will be conferring a great favor upon calling him a good Indian, and telling myself, my companion, and doubtless, him I was sure some bad Indians in the also, upon many of our relations and west had got the child, and requesting friends; and will at the same time cor- him to hunt and get her. Here, in adrect a number of false reports of her dition to the before-named rewards, I having been found. You will also make promised to give him 13 horses to bring more generally known the principle her safe to me. I sometimes think that grounds upon which we base our belief we might have obtained her on these that the Indians have stolen her. This conditions, but for the numerous threats will probably have a tendency to put thrown out against the Indians by

lookout to obtain information concern- In addition to the forgoing evidences, ing her, and may thus render efficient Sag-wich has told, both at Mendon, Paradise and Willow Creek, that Po-ca-In the first place, we consider the fact tello stole the child. He told when of the unaccountably mysterious disap- and where he got her, where they took pearance, a circumstantial evidence of her to, how long they kept her in Cache her having been stolen; and if stolen, valley, and the night they passed who so likely to have stolen her as In- through Mendon with her when they

tello and his band are ranked the worst. A young man from Wellsville on his She was less than two and a half years way to the mines wrote to his father,

reeled in the ordinary way, but they farming; neither could she have passed Assisted by a number of brethren

who reside in this valley, I have spent a good deal of time in hunting and have ransacked the country far and near. I have left no stone unturned nor any means untried, that I could devise or my friends suggest, but all to no purpose. Still I have faith that in some way or other our little one will finally be restored to us, and I do most sincerely believe that the publication of the above in your paper would materially assist in bringing about this restoration.

I am, very respectfully, your brother in the Gospel,

G. W. THURSTON.

January, 16th, 1869. Since writing the above, I have seen young Brother Kerr. He says the Indian he saw on Blackfoot spoke very good English, and told him that Po-catello had the little girl that was stolen in Cache Valley, for he had been at Poca-tello's camp in the Logan bottoms and had seen her there. He also told him that Po-ca-tello hired other Indians who knew of it to keep the secret, and paid them several horses to do so. And further, he said Po-ca-tello was going on a buffalo hunt, and was intending to take her with him, and I understand he is now on his hunt.

G. W. T.

The National Woman's Rights Conven vain. The cocoons of this insect pro- indians were seen in the vicinity of tion met at Washington City on the 19th inst. The convention was opened by Dr. Gray, Chaplain of the Senate, who asked that the time might soon come when woman, who was from the rib of man, would assume her social and civil rights alongside those of man. This prayer did not suit. Mr. E. M. Davis, of Philadelphia, was the first to take exception to Dr. Gray's prayer. He said the gentleman had spoken of women as of the rib of man, while all history and the Bible proved that woman was the equal of man, Mrs. Lucretia Mott and Mrs. Cady Stanton endorsed what Mr. Davis said. Mrs. Mott said that at that portion of the prayer she raised her head because she could not admit any such inequality. It is not recorded how the Doctor felt or what he said about this criticism, but it may fairly be presumed that if he again attempts to pray for a Woman's Rights Convention, he will be more caieful in the selection of his words.

It is a fearful thing, we imagine, to fall into the hands or under the lash of the tongues of a convention of strong-minded women. As for Mr. Davis, Dr. Gray must have felt, in the expressive, but not elegant, language of Sir Wylton Downe, in the Lottery of Life, that he would have liked to have "punched his head," metaphorically

of course.

& W. TAYLOR

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FROM LEHI.

HEIFER, 1 year old, red, brockle face, crop both ears. HEIFER, 1 year old, roan.

Said Heifers, if not claimed, will be sold to the highest bidder at the County Pound, Provo, February 30, 1869. EDSON WHIPPLE, Utah County Poundkeeper. s103 2&w52 1

ESTRAYS!

NE bay MARE, 5 years old, white in face, three white teet, no brands. Said animal has a bay Mare Colt. One sorrel COLT, white in face, three white

The above animals came to the Estray Pound, January 9th, and if not claimed by the owner on or before the 8th of February next, will be One HEIFER, 2 years old, brindle and white,

no marks nor brands visible. Came on the 18th inst., and if not claimed by the owner on or before the 17th of February next, will be sold at the Estray Pound, at 1 p.m.

HENRY MCMULLIN, Poundkeeper, Heber City, Wasatch County. January 18th, 1869,