

Tremendous Energy of the Southern People.
Detroit Free Press, editorial.

The tremendous physical constitution and energy of the Southern people, at least of the males, is something unparalleled in history. That they spend a good portion of their nights in roving about and engaging in murder, arson, robbery and other crimes, is conceded by every Republican newspaper and proclaimed from every Republican stump. An ordinary race of men would, of course, require sleep and rest during the daytime; but no sooner do these Southern banditti arrive home and take off their masks and put away their pistols, than they begin the work of the daytime by raising cane, cotton, and other products to a larger extent than before the war. Some of them, too, after a hard night's ride, go to work manufacturing the cotton which the other kluxes have raised. They even send to the North for machinery. A northern newspaper says that the Lewiston (Maine) Machine Company's works were never so busy as now. Looms are being made for mills in Georgia, North and South Carolina, and the shops are run at their fullest capacity to fill the orders. Hence we say that a people capable of manufacturing and raising cotton by day, and in the classic words of Hor, of Michigan, "hell" by night, are at once the most vigorous and the most industrious of any people on earth.

LEARN ABOUT THE PULSE.—Every intelligent person should know how to ascertain the state of the pulse in health; then, by comparing it with what it is when he is ailing, he will have some idea of the urgency of his case. Parents should know the health pulse of each child—as now and then a person is born with a peculiarly slow or fast pulse, and the very case in hand may be of that peculiarity. An infant's pulse is 140; that of a child of 7, about 80, and from 20 to 30 years, it is 70 beats a minute, declining to 50 at fourscore. A healthful grown person's pulse beats 70 times a minute; there may be good health down to 60; but if the pulse always exceeds seventy, there is disease; the machine is working itself out, there is a fever or inflammation somewhere, and the body is leading on itself, as in consumption, when the pulse is quick, that is over 75, gradually increasing, with decreasing chances of cure, until it reaches 110 to 120, when death comes before many days. When the pulse is over 70 for months, and there is a slight cough, the lungs are affected. There are, however, peculiar constitutions in which the pulse may be over 70 in health.

RAILROAD-TIES.—The Commercial has an interesting statement from an observant railroad-man regarding the use of timber on the American railroads, according to which it yearly takes 200,000 acres of forests to supply cross-ties for the railroads of the United States. It takes 15,000,000 ties to supply the demand on our railroads, for which on an average the contractors get thirty-five cents apiece, making in the aggregate \$5,250,000. In building a new road the contractors figure on 2,700 ties to the mile, while it takes 300 ties to the mile to keep a constructed road in repair. The average of a good piece of timber-land is 200 trees to the acre and 12 ties to the tree. With such a drain on our forests, and increasing each year, it is plain to see how rapidly they must disappear.

THE MEDICINAL LEACH.—This worm is known far and wide, and its peculiar construction is little understood, even to those who have experienced benefits from it. The extraction of blood is accomplished by the leach in the following way: (Popular Science Monthly). The lips close in a circle upon the air-tight skin, the jaws are also brought down to it and their saw-like teeth are pressed tight upon the cuticle. The throat now having become fast closed, the head of the worm is drawn back a little, and the lips are thereby given the form of an exhaustive cupping glass, which is divided internally, by the jaws still fastened to the skin, in three distinctly separated parts. The skin is powerfully sucked until it is torn. The long, narrow, many-segmented, by means of seventy-six penial valvular sacs, arranged in two rows, to retain an immense quantity of blood without any of it being driven back by the muscular activity of the body. Advantage is taken of this peculiarity to puncture the rear end of the maw, causing the blood to escape nearly as fast as it is ingested. The usual nourishment of the leach consists of vegetable and animal infusoria. Although not nearly so much used in medicine and surgery as formerly, the demand for leaches will always be great, and the rearing of them a subject of profitable study.

OZONE.—The scientific world has had great expectations of ozone, but more especially have physicians and sanitarians expected to demonstrate that the presence of ozone caused certain diseases, such as dyspepsia, or on the other hand that this agent had a decided power in purifying the atmosphere. Lichneich finds (N. C. Medical Journal) that ozone is a product of decomposition. He finds that where decomposition takes place ozone is present. As to the measurements of ozone by iodine paper, he thinks the test unreliable. "Of what use is it, when," he asks, "from the top of some public building in any city, ozone paper is hung out, and its degree of blueing is observed? For this nothing more is necessary than that from some factory chimney chlorine is given out, and the city rejoices in the considerable quantity of ozone which its atmosphere contains." He insists that general measurements in places where the composition of the atmosphere is not accurately known, are unreliable. Ozone cannot exercise any remedial effect. Ozone does not resemble oxygen entirely in its external properties. Ozone is an extremely labile body, which in contact with tissues, immediately decomposes and gives off oxygen. When we inhale ozone, it becomes completely decomposed in the mucous membrane of the mouth and in the wind-pipe; it acts as an irritant, just the same as the concentrated solutions of ozone. We have no means at present by which we can introduce ozone into the blood.

A LUMINOUS SEA.—Recent observations leave no doubt that the luminousness of the water at sea is due to a phosphorescent animalcule, which is figured in the Popular Science Monthly (Aug., p. 574). Many of these bodies were taken up in a bucket, in a recent voyage of a French iron-clad from Japan, when there was a very remarkable display of them. When rubbed in the hand the bodies left a bright train which soon went out, leaving no odor.

A preservative wrapping-paper adapted for apples, oranges, or other fruit, may be prepared by dipping a soft tissue paper in a bath of salicylic acid and hanging it in the air to dry. The bath should consist of a strong alcoholic solution of salicylic acid diluted with all the water it will bear without precipitation. This preservative paper may be wrapped about the fruit before packing, and when the fruit arrives at its destination the paper may be taken off and used for the same purpose again. A wrapping paper to protect furs, cloths, etc., from moth and mildew is prepared by dipping manilla paper in a prepared bath, squeezing it, and drying it over rollers. This bath consists of a mixture of 70 parts of the oil removed by the distillation of coal tar naphtha, 5 parts of crude carbolic acid, containing at least 50 per cent of phenol, 20 parts of thin coal-tar at 260° Fahr., and 5 parts of refined petroleum.

HOW TO CHECK A BONE SPAVIN.—Bone spavin consists of inflammation of the membranes covering the bones of the hock joint or of the bones themselves. It may result from constitutional causes; from weakness of the bones caused by over-feeding upon corn, which is too rich in starch and deficient in the phosphates which go to build up the bony frame; from hard work, or from bad shoeing, which throws the foot out of balance and induces strains of the joints of the leg. Spavins are very common because these causes are common. The spavin may be checked by the application of cold water, by which the inflammation is reduced, and then by stimulating liniments, which produce absorption of the inflammation. A spavin ends by the formation of a bony growth about the parts affected, and when this is completed the joint becomes cemented together and remains stiff, but the tenderness and pain are lost. Care of an old spavin is, therefore, out of the question. After the cold applications have been tried without result, blistering, firing and setons under the skin over the part are usually restored to.

CARELESS WIVES.—It is very common remark made of a young man that he is so industrious and so economical that he is sure to be thrifty and prosperous. And this may be very sure of him so long as he remains single. But what will his habitual prodigality avail him against the endless waste and extravagance of an unenlightened, unthinking wife? He might as well be doomed to spend his strength and life in attempts to catch water in a sieve. The effort would hardly be less certainly in vain. Habits of economy, the way to turn everything in the household affairs to the best account—these are among the things which every mother should teach her daughters. Without instruction, those who are poor will never become rich, while those who are now rich may become poor.—Selected.

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are extracted from Vegetable products, combining in them the Mandrake or May Apple, which is recognized by physicians as a substitute for calomel, possessing all the virtues of that mineral, without its bad after-effects.

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they are incomparable. They stimulate the TORPID LIVER, invigorate the NERVOUS SYSTEM, and give tone to the DIGESTIVE ORGANS, creating perfect digestion and thorough assimilation of food. They exert a powerful influence on the KIDNEYS and LIVERS, and through these organs remove all impurities, thus vitalizing the tissues of the body and causing a healthy condition of the system.

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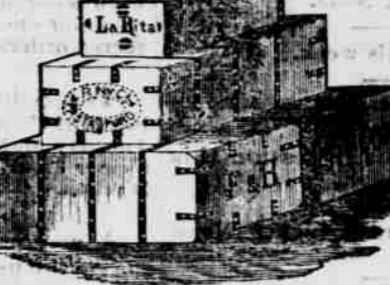
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