

Agriculture.

STEAM PLOUGHING.

Our agricultural readers will be greatly interested by a report on steam cultivation in the Times supplement of 15th of March. We have already called their attention to what we think a certain fact, that Thompson's road-steamer is destined to be the supplanter of agricultural horses to as large an extent, perhaps, as railroads have supplanted road horses. It seems the Earl of Dunmore has been testing the road-steamer in every way ever since August last—putting it to work of every kind, on the road and in the field. At carting his harvest it very decidedly beat his horses, both in questions of work done and the time and cost of doing it. It took heavy loads to the railway-station, sawed wood, pulled up large roots of trees, threshed the corn, cut the hay and straw and ploughed the stubbles—it seems to have been a veritable steam elephant, so powerful and skilful was it. But it was the object of his lordship to make it a perfect steam-plough and in this he has quite succeeded. On the last day of February this intelligent engine publicly exhibited its skill and power before a large assembly of farmers, and here is the report for the benefit of our numerous farmer friends, who, if yet in middle life, are certainly destined to see the road steamer a field-steamer, tilling their fields as commonly as the locomotive whisks along its iron way across them:

The field to be ploughed, lying immediately below the ancient tower of Dunmore, had lain in pasture for 40 years, not having been ploughed since 1831. It had rained heavily for a day and two nights before the trial, and also heavily that morning, and as the field had never been drained it was exactly in that state in which it had so often been declared that it was impossible for a traction engine to drag itself over the land, much less a plough. However, at the given signal, the road-steamer started, and dragged the plough after it in the easiest and smoothest way imaginable. The work executed was really admirable. The furrows, 6in. by 10in., were beautifully turned over, closely packed, giving a good shoulder and a capital seed-bed. Indeed, so splendid was the work, that on comparison the furrows were found to excel those made in another portion of the same 45-acre field by some double-furrow horse-ploughs for a prize competition. The land ploughed by the road-steamer was in so heavy a state that a one-furrow horse-plough, which was drawn through it as a test, marked by the dynamometer a draught of 6½ cwt.—English paper.

INFLUENCE OF LIGHT UPON PLANTS.—The influence of light upon plants has always been well known, and recently some experiments made in France give us some further knowledge of its influence, in its less obvious phases. A climbing plant placed in a dark place continued to grow, but did not twine in the usual spiral convolutions. It grew straight up in the dark; but when replaced in the light it commenced to twine as usual. The experiment was repeated several times, and always with the same results, thus showing that light was essential to its power of twining.

FRUIT TREES.—We would urge the propriety of going over the orchard, tree by tree, and removing all dead or superfluous branches. Cut out every sucker, whether it springs from the ground or from body or branch. Don't burden the tree with an unnecessary growth of wood. Remember that whatever goes to superfluous wood is so much taken from the growth of fruit, and the remaining wood will not ripen so well. One who has a given amount of labor to perform should not be overburdened with unnecessary weight or other hindering encumbrance.

HEDGES IN MEXICO.—The cactus has been put to a very important use in Mexico. The inhabitants of the country build fences out of the organo variety which is eight sided, from five to eight inches thick, and grows to a height of from ten to twenty-five feet. The cactus is cut in sections, the cut ends stuck as closely as possible into a trench covered with about a foot of soil, and the fence is made. As the plant lives for ages, the virtues of this fence "increase with its years."

To whom you betray your secret you betray your liberty.

Scientific.

COAL is entitled to be considered as the mainspring of our civilization. By the power developed in its combustion all the wheels of industry are kept in motion, commerce is carried with rapidity and certainly over all portions of the earth's surface, the useful metals are brought from the deep caves in which they have hidden themselves, and are purified and wrought to serve the purposes of man. By coal light is, in one sense, converted into day, winter into summer, and the life of man, measured by its fruits, greatly prolonged. Wealth with all its comforts, the luxuries and the triumphs it brings, is its gift. Though black, sooty, and often repulsive in its aspects, it is the embodiment of a power more potent than that attributed to the genii in Oriental tales. Its possession is, therefore, the highest material boon that can be craved by a community or nation. Coal is also not without its poetry. It has been formed under the stimulus of the sunshine of long past ages, and the light and power it holds are nothing else but such sunshine stored in its black casket, to wait the coming and serve the purposes of man. In the process of formation, it composed the tissues of those strange trees that lifted their scaled trunks and waved their feathery foliage over the marshy shores of the carboniferous continent, where not only no man was, but gigantic salamanders and malclad fishes were the monarchs of the animated world.

VOICE AND SOUND.—If we go out the outside of a town during a fair, at the distance of a mile, we hear the musical instruments; but the din of the multitude, which is so overpowering in the place, can scarcely be heard, the noise lying on the spot. The violins made at Cremona, about the year 1690, are superior in tone to any of a later date, age seeming to dispossess them of their noisy qualities, and leave nothing but the pure tone. If a modern violin is played by the side of one of those instruments, it will appear much the loudest of the two; but on receding 100 paces, when compared with the Amati, it will scarcely be heard. The voice of man is endowed with purity of tone in a higher degree than any of the vocal animals; by which, in a state of nature, it enables him to communicate with his fellow at a distance very remote.

THE PROOF-READER.—How few readers appreciate the services of the individual who examined the "proofs" of a paper before it is printed. He is one of the most important agents to the production of a correct literature, and one of whom no reader seems to think. His is the most thankless of all the employments among men. Let him bring out a paper without a fault for weeks and weeks in succession, and nobody thinks of him. But let him allow an error to go uncorrected, and immediately he is known to be censured and his paper subjected to ill natured criticisms. He has no thanks for his labored patience, but blame if he is not faultless. He is certain of one of two things,—forgetfulness or censure.—Exchange.

The champion goose of New England belongs to Alden Thurstin, of Alstead, N. H. In support of that claim her owner exhibits an egg weighing three quarters of a pound, measuring nine inches from end to end and six and one half around the middle. Last year the same goose laid an egg a little less in weight, from which two goslings were hatched.

The parasol-ants of the West Indies, says Dr. Forbes Winslow, in his work on light, walk in long procession, each one carrying a cut leaf, over its head as a parasol, in the sun, and they deposit these in holes ten or twelve feet under ground, apparently with no other object than to form a comfortable nest for a species of white snake, which is invariably found coiled up among them.

The last scientific sound experiment in the Atlantic show an upper stratum of warm water, 700 to 800 fathoms deep, moving northward, and the entire, deeper stratum below, of almost icy coldness, moving southward from the Arctic basin.

Canada is the fourth maritime power in the world. According to the "Year Book for 1870," she has 7,594 vessels, with a tonnage of 399,090.

MESSINGER ALMANACK.

MAY, 1871.

Full Moon, May 4th, 6h 45m. afternoon. Last Quarter, " 11th, 10h. 9m. morning. New Moon, " 19th, 6h. 31m. morning. First Quarter, " 27th, 8h. 48m. morning.

Table with 4 columns: Day, SUN, MOON, High Tide. Rows list dates from 1st to 31st May with corresponding times for sunrise, moonrise, and high tide.

THE TIDES.—The column of the Moon's Southings gives the time of high water at PARSBORO, CORNWALLIS, HORTON, HANTSPOUT, WINDSOR, NEWPO, and TRURO.

High water at Pictou and Cape Tormentin, 2 hours and 11 minutes later than at Halifax. At Annapolis, St. John, N. B., and Portland Maine, 3 hours and 23 minutes later, and at St. John's, Newfoundland, 20 minutes earlier, than at Halifax.

FOR THE LENGTH OF THE DAY.—Add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising.

FOR THE LENGTH OF THE NIGHT.—Subtract the time of the sun's setting from 12 hours and to the remainder add the time of rising next morning.

New York and Oswego Midland Railroad. FIRST MORTGAGE BONDS. Principal and interest payable in Gold. Interest 7 Per Cent. Gold per annum free from Government Tax.

THIS road spans the State of New York from its Metropolis to its Northern borders.

The Company has a contract with the Delaware and Hudson Canal Company for the transport of their coal, which adds largely to the business and profits of the coal.

A. V. P. B.

ARCHIBALD'S VEGETABLE PAIN BALSAM is an article worthy of patronage and should be found in every house. It is equal if not superior to any other Pain Killer now in use.

To Parents and Sabbath School Teachers. JUST PUBLISHED. SECOND EDITION—REVISED.

A SCRIPTURE CATECHISM, for the Family, the Bible Class, and the Sabbath School, BY S. SELDEN.

TRY NELSON'S CHEROKEE VERMIFUGE.

THIS valuable Indian combination has been successfully used by physicians, and found to be safe and sure in eradicating worms in persons of all ages.

WRIGHT'S Patent Sectional Spring Bed!

THE Subscribers having been appointed Sole Agents in the Province for the sale of this article, recommend it as being the easiest and most comfortable to rest upon, and together with its durability, and the facility with which it can be taken apart and cleaned, they feel certain that it will be found to be a most convenient article.

EAGAR'S Peruvian Bitters!

Of Peruvian Bark, Sarsaparilla, Dandelion, Wild Cherry, and other valuable remedies. AN EXCELLENT TONIC, APPETIZER, & STIMULANT. Cures LIVER COMPLAINT, DYSPEPSIA, ACIDITY OF THE STOMACH, DEBILITY and PAIN IN THE BACK, RESTORES THE VITAL ENERGIES, when exhausted, braces up both the Nervous and Muscular System, PURIFIES the BLOOD, and Restores the Appetite.

PERUVIAN BITTERS are not an Alcoholic preparation, but simply a scientific combination of valuable Roots and Barks, which purify the Blood and restore the waste, thereby bracing up both the Nervous and Muscular Systems, and giving that permanent HEALTH, STRENGTH and VIGOR, both of mind and body which nature intended man should possess.

CERTIFICATES: I have found Mr. Eagar's PERUVIAN BITTERS beneficial to myself and in my family, and have heard of their being used with good effect in another case in Windsor.

LUNenburg, 28th June, 1869. MR. EAGAR, I have used your PERUVIAN BITTERS and can highly recommend them, as I have derived great benefit therefrom.

FOR SALE in large bottles at 37½ cts. per bottle, and in one dozen and three dozen boxes. Orders from the country will receive immediate attention.—Desires Supplied on liberal terms.

TOOTH ACHE. EAGAR'S ODONTINE ESSENCE gives instantaneous relief in all cases of Tooth Ache arising from hollow teeth and exposure of the nerve.

NEW WHOLESALE DRUG STORE, 149 Hollis St., Halifax.

The subscriber is prepared to execute orders for Drugs, Chemicals, Perfumery, Patent Medicines, Paints, Varnishes, Oils, Toilet Articles, and all other articles usually supplied by Drug Houses.

Hair Oil, at from... \$0.37 per dose. Perfume, " " " 0.60 " Black Cap Pomade, " " " 1.00 " Box Wood top Pomade, " " " 1.00 " Glycerine & Camphor Roll, " " " 0.90 " Soaps, " " " 0.25 "

DR. JOSEPH D. DAVIS

WOULD inform the public that after thirty years of study, investigation and practical experience concerning that terrible disease

CONSUMPTION,

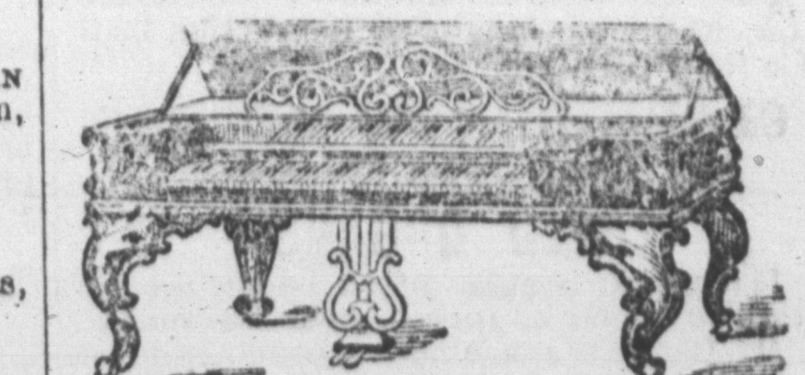
And the diseases of the anterior and posterior nares, throat, bronchia, lungs, heart, liver, kidneys, and uterus, and twenty years spent in investigating, experimenting and proving, with the medicinal and therapeutic properties of the roots, barks, plants and shrubs, indigenous to Massachusetts, Maine, New Brunswick and Nova Scotia, he has discovered new remedies, and new modes of treatment, for Consumption, not previously known to Medical Science; and with the large number of cases treated, relieved and cured during the past ten years, in Maine, Massachusetts, and in different sections of Nova Scotia, has proved, beyond the shadow of a doubt, that Consumption, very often in its advanced stages, with his medicines and mode of treatment, can be cured.

He has, at great expense, procured from London, Paris, Vienna and the United States, the finest and most delicate instruments to enable him to thoroughly diagnosis disease.

CAPE SABLE ISLAND, N. S. July 15th, 1870.

DR. DAVIS.—Dear Sir—The wisest of men has said that in "a multitude of counselors there is safety." Having been benefited by your medicines, I wish to say it to others who may be suffering from lung disease. Early in 1869 my health began to give way, until such a lack of vitality was experienced that I concluded it was time to try to avert the impending danger or doom; and arranged last autumn for a rest and a visit to my native Province; but on returning found myself no better; I became discouraged, fearing if no help could be obtained that I should have to abandon my work in the ministry. Happily for me, as the sequel proved, you were directed this way last winter; and, upon examination, you said my lungs were in a tubercular condition, and advised me to take medicine; to which I consented, with many misgivings, which, however, were dissipated in the course of four or five months. For the first three months I could not discern much change; but after that began to feel a new vitality permeating my whole system; my work, which for months had been burdensome, became lighter and more agreeable; and now I enjoy a vigorous state of health. If this testimony should induce any who are suffering from lung disease to employ you, with the same success, I do not doubt but they will feel that, under the Divine blessing by which you have been enabled to gather such valuable knowledge from nature's store house, they are your debtor. With earnest prayer that you may succeed in business and become a blessing to many of the afflicted, I remain, with kindest regards,

WM. M. KNOLLIN, Minister of Free Baptist Conference of N. S. Dr Davis intends visiting the following various towns and localities: He will be in Weymouth from the 1st Feb to 7th, Yarmouth from 7th to 14th; Barrington from 14th to 21st; Cape Island from 21st to 28th; Chelburne from 1st March to 7th; Liverpool from 7th to 10th; Bridgewater from 10th to 17th; Lunenburg from 17th to 24th; Mahone Bay from 24th to 31st; Chatham from 1st April to 7th; Bridgetown from the 7th to 14th; Halifax from 14th April to 30th June. March 15.



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WM. FRASER & SONS, June 1. 70 & 72 Barrington St.

Government House, Ottawa, Wednesday, 19th day of April, 1871. HIS EXCELLENCY THE GOVERNOR GENERAL IN COUNCIL.

ON the commendation of the Honourable the Minister of Customs and under the authority given by the 54th Section of the Act 31st Vic., Chap. 6, intituled—"An Act respecting the Customs, His Excellency has been pleased to order, and it is hereby ordered that the Port of Morrisburgh, in the County of Pundas, and Province of Ontario, shall be and the same is hereby ordered into and constituted a Warehousing Port, within the meaning of the Act.

THE CHRISTIAN MESSENGER is published every WEDNESDAY. Terms—Two Dollars a Year, when paid in advance; if payment is delayed over three months \$2.25 when over six months \$2.50.

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