

Agriculture.

TOMATOES FROM CUTTINGS.

W. W. Canada says: The *Canada Farmer* of Feb. 15th contains an article upon the Tomato, in which it is stated that cuttings of this plant should be taken in the fall, kept through the winter, and set out in the spring, and that this mode of propagation is better than sowing seed in spring, etc. Now it seems to me that the tomato being an annual, cannot be propagated by cuttings taken in the fall and kept through the winter. Am I right, or is the writer in the *Canada Farmer* correct?

[Any annual can be perpetuated for an indefinite number of years, by cuttings each year. It is reasonable that tomatoes would be somewhat earlier this way; of course it involves extra trouble. We supposed the *Canada Farmer* was dead, as we have not heard of it for two years.]

We copy the above from the *Gardener's Monthly*. It appears that in the matter of Tomato-raising, Halifax is ahead of all Canada and the outlying Republican States, for Mr. Harris regularly grows his Tomatoes from cuttings, and not from seed, and finds that by this means they fruit much earlier and more abundantly, and as regards robustness of plant, no seedling grower can hope to compete with him.—*Ed. Journal of Agriculture.*

GRASSING A TERRACE OR BANK.—“To use the most improved method of covering a bank of earth with grass, there is just one satisfactory way,” if time and uniformity of the surface are important. This is to cover it with sods, taken from a road side or from an old pasturefield. A heavy seeding of white clover and red-top will make a good finish where the soil does not wash and gully away; but alone they are hardly reliable for terrace work. Upon very steep surfaces the turf may be held in place by means of wooden pins driven through it into a bank. Pieces of lath, a foot long, answer the purpose very well.

WHEN TO SOW GRASS SEED.—A correspondent of the *New England Farmer* says:—It has been the practice of most farmers to sow grass seed in the Spring, with wheat, barley, and oats. This will do, if the land is in good condition to seed down in April, or early in May. But when the land is too wet to work until late in May, or early in June, it is better to sow grain without grass seed, and when the grain is taken off, plow in the stubble, put on the manure, sow on the grass seed, and lay the ground down smooth. It is better for the following reasons:

1st. The young grass will make a more vigorous growth than when sown late in May, with grain, because the grain will grow up quick and overpower the young grass which will be feeble at best. And when the grain is taken off, it will sometimes die out by drouth and the heat of the sun, and if it does not die, it will make but a sickly growth.

2nd. The land is generally dryer in August and in better condition to seed down, and it puts the stubble out of the way, and farmers have more time to do the work well.

TANNING LEATHER.—Soak the hide nine or ten days in water, then put it in lime; take it out, and remove the hair by rubbing it, and soak it in clear water until the lime is entirely out. Put one pound of alum to three of salt, dissolve in a vessel sufficiently large to hold the hide; soak the hide in it three or four days, then take it out, let it get half dry, and then beat or rub it until it becomes pliable. Leather prepared by this process will not do so well for shoes, but answers well for ham strings, back bands, and various other purposes on the farm.—*Southern Cultivator.*

An Ohio cultivator claims great success for his treatment of quince and apple trees. He spades the ground in spring, and scatters a peck of coal ashes around each tree, and applies about a quart of salt to the ground under each tree after the soil has been spaded, and another quart after the quinces are about half grown.

Onions.—Weed as soon as up, and keep the ground constantly stirred. A dressing of ashes, worked into the soil between the rows with a hoe, is very beneficial.

Scientific.

NATURAL AND ARTIFICIAL LIGHT.

—The great difference between the sun and artificial light is due to the fact that, of the light emitted from the former, about half the quantity of rays are luminous and calorific at the same time; but as regards our artificial light, for ordinary oil the amount of non-luminous yet calorific rays is 90 per cent; for white hot platinum, 98 per cent; alcohol flame, 99 per cent; electric light, 89 per cent; and gas light, 90 per cent; while for petroleum and paraffine oils the amount is 94 per cent. It is this large quantity of calorific rays in artificial light which causes fatigue to the eyes; but this inconvenience may be most entirely obviated by intercepting the thermic rays by glass, or, better yet mica plates. The use of these renders the light soft and agreeable to the eyes.

A PORTABLE BOAT.—A long felt want of sportsmen for a boat which they can carry around with them seems at last to be met by what is known as the “Sporting Raft,” consisting of two Indian rubber cylinders, cigar-shaped enclosed in stout canvass, with a light frame deck. It draws only nine inches of water, is eight feet by three feet nine inches in size, weighs only 49 pounds but is capable of floating 59 pounds. When not in use it can be rolled up and put into a bag, making a package three feet long by less than a foot in diameter. A New York firm has just begun the manufacture of these boats.

[Our contemporary, from whom we copy the above, must have made a mistake in the 59 lbs. floating power. The boat would be of but little value unless it would float say 2, or 300 lbs.]

COLORS.—Experiments made to ascertain what colors are most quickly and easily perceived by the eye seem to show that bright yellow is the color most easily distinguished, and violet and red are least readily recognized. After yellow, blue is the most quickly seen. These experiments may be of some value in improving our system of railway signalling. The colors most readily distinguishable at the greatest distance are obviously the best to employ for signals. Now, according to these experiments, red comes last, or last but one, and green stands but just before it. Bright yellow and blue, the colors most easily recognized, would therefore seem to be preferable for signal-lights.

TRANSMIGRATION OF BIRDS.—A Campobello letter states that, on the morning of the 28th May, the keeper of Head Harbor Light, picked up, around the lighthouse, two hundred and twenty-seven dead birds, from the size of a robin to a titmouse, and comprising twenty-one different varieties. It is quite common to find two or three dozen after a foggy night, but the above number is something out of the common.—*Scientific American.*

Corn should never be planted till the ground is dry and warm. If planted in cold wet ground, it will come up, if at all yellow spindling, and will be slow in taking up a thrifty growth. It had better be planted late than in a soil in an unsuitable state.

RECIPES.

BEEF A-LA-MODE.—To a piece of beef 10 lbs. take 6 blades of mace, 12 cloves, half a nutmeg; pound them fine. Then rub the spice well into the beef; after the beef has been rubbed with salt and saltpetre for 12 hours, roast it.

DELICIOUS APPLE PUDDING.—Very convenient, as it may be made several hours before it is baked, or when a nice addition is wanted unexpectedly. Pare and chop fine half a dozen or more, according to their size, of the best cooking apples; grease a pudding dish, cover the bottom and sides half an inch thick with grated bread and very small lumps of butter; pour over the whole a tea-cup of cold water. Put into the oven as soon as the dinner is served, and bake 25 or 30 minutes.—It may be baked the day before it is wanted; when it must be heated thoroughly, turned into a shallow dish, and sprinkled with powdered sugar; it requires no sauce.

Chinamen celebrate their holidays by paying their debts, forgiving their enemies, and “shaking hands all round.”

MESSENGER ALMANACK.

JUNE, 1871.

Full Moon, June 3rd, 2h. 12m. morning.
Last Quarter, “ 9th, 8h. 23m. afternoon.
New Moon, “ 17th, 10h. 15m. afternoon.
First Quarter, “ 25th, 6h. 30m. afternoon.

Day	SUN.	MOON.	High Tide
Wk.	Rise	Set	South
1 Th.	4 23 34	5 58 10	3 11
2 F.	4 21 7	7 18 11	3 46
3 Sa.	4 21 7	8 38	4 26
4 Su.	4 20 7	9 44	5 06
5 M.	4 20 7	10 43	5 59
6 Tu.	4 20 7	11 28	6 52
7 W.	4 19 7	12 3	7 44
8 Th.	4 19 7	1 5	8 47
9 F.	4 19 7	3 36	9 56
10 Sa.	4 18 7	4 1	10 56
11 Su.	4 18 7	4 1	11 56
12 M.	4 18 7	4 1	12 56
13 Tu.	4 18 7	4 1	1 56
14 W.	4 18 7	4 1	2 56
15 Th.	4 18 7	4 1	3 56
16 F.	4 18 7	4 1	4 56
17 Sa.	4 18 7	4 1	5 56
18 Su.	4 18 7	4 1	6 56
19 M.	4 18 7	4 1	7 56
20 Tu.	4 18 7	4 1	8 56
21 W.	4 18 7	4 1	9 56
22 Th.	4 18 7	4 1	10 56
23 F.	4 18 7	4 1	11 56
24 Sa.	4 18 7	4 1	12 56
25 Su.	4 18 7	4 1	1 56
26 M.	4 18 7	4 1	2 56
27 Tu.	4 18 7	4 1	3 56
28 W.	4 18 7	4 1	4 56
29 Th.	4 18 7	4 1	5 56
30 F.	4 18 7	4 1	6 56

THE TIDES.—The column of the Moon's Southings gives the time of high water at Windsor, New Port, and Truro.

High water at Pictou and Cape Tormentine, 2 hours and 11 minutes later than at Halifax. At Annapolis, St. John, N. B., and Portland, Maine, 3 hours and 25 minutes later, and at St. John's, Newfoundland, 30 minutes earlier.

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.

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Interest 7 Per Cent. Gold per annum free from Government Tax.

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

Its Northern terminus is at the city of Oswego, on Lake Ontario. It shortens the railroad connection of the City of New York with Oswego and Canada FORTY FIVE MILES, and by means of a branch at Auburn, where it connects with the New York Central, it shortens the connection with Buffalo and the West SEVENTY MILES.

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 road.

The PAID-UP CAPITAL of the Company is about \$5,000,000, which is believed to be a large capital than any other railroad enterprise in the United States ever started with. The issue of Bonds is limited strictly to \$20,000 per mile of ROAD ACTUALLY BUILT AND IN RUNNING ORDER.

The annual earnings of the road are estimated at nearly \$900,000; the operating expenses will not exceed fifty per cent which would leave, after payment of interest on Bonds, over \$214,000. For sale by W. S. STIRLING, Halifax, T. S. WHITMAN, Annapolis, G. OPDYKE & CO., Bankers, N. York. April 19th. 3m.

A. V. P. B.

ARCHIBALD'S VEGETABLE PAIN BALM.—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. Also, Archibald's Cough Mixture for Coughs, Colds, and all Lung Diseases.

The Proprietor has removed to Truro, Celestine Co., N. S., is now extending his business, and will be prepared to furnish his numerous patrons with the above, as well as many other valuable remedies compounded by him. Sold by all the principal Dealers and Druggists in the Provinces. 1 yr. Oct. 21.

To Parents and Sabbath School Teachers.

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SECOND EDITION—REVISED.

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

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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. Prepared by W. J. NELSON, Bridgewater, N. S.

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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.

GORDON & KEITH.

EAGAR'S Peruvian Bitters!

COMPOUND

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.

Particular attention is called to the fact that the

PERUVIAN BITTERS

are not an Alcoholic preparation, but simply a scientific combination of valuable Roots and Barks, which purifies the Blood and restores 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.

This BITTERS is not sold as a specific for every disease, but in cases of GENERAL DEBILITY and its effects, such as Dyspepsia, Loss of Appetite, Weakness of the small of the Back, Weak Memory, Indisposition for Exertion. Sense of Fullness after Eating, &c., caused by anxiety over exertion, mental or bodily, late hours, and excesses of every kind, it has no equal.

Although these BITTERS contain no Alcohol, they will most effectually wean the taste from Stimulants and enable the system to dispense with them at once.

The proprietor, although averse to the practice of putting any medicine, feels it his duty to give publicity to the following certificates.

Hundreds could be added, but such names as Dr. H. Professor of Chemistry at King's College; Capt. Hardy, R. A.; Mr. Solomon, Lunenburg; and Dudley de Chair, Esq., Halifax, will be sufficient to establish its reputation as a reliable and valuable medicine.

CERTIFICATES:

I have found Mr. Egar's PERUVIAN BITTERS beneficial to myself and in my family, and have heard of great benefit therefrom. (Signed) HENRY HOW, D.C.L. King's College, Windsor.

MR. EGAR, I have used your PERUVIAN BITTERS in a personal case of Dyspepsia, and have derived the greatest benefit therefrom. (Signed) C. HARDY, Capt. R. A.

LUNENBURG, 28th June, 1869.

MR. EGAR, I have used your PERUVIAN BITTERS and can highly recommend them, as I have derived great benefit therefrom. (Signed) EDWARD H. SOLOMON, Dy. Surveyor, Co. Lunenburg.

I have tried Mr. Egar's PERUVIAN BITTERS, and can strongly recommend them. (Signed) DUDLEY DE CHAIR, Halifax, June 3, 1869.

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EAGAR'S ODONTINE ESSENCE

gives instantaneous relief in all cases of Tooth Ache arising from hollow teeth and exposure of the nerve.

Thousands of bottles have been sold and in no case has it failed to give satisfaction.

Be sure and obtain Egar's Odontine Essence; take no other.

The money will be returned if it fails to give relief when used according to directions in cases of tooth ache from exposed nerve.

25 CENTS PER BOTTLE.

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Being agent for first class Surgical Instrument makers in London and Paris, their respective price lists can be seen at his establishment.

His knowledge of the London, Liverpool and Parisian Markets, enables him to offer goods at very low prices for cash as will be seen by a few quotations below:

Hair Oil,	at from...	\$0 37 per doz
Perfume,		0 60 "
Black Cap Pomade,		1 00 "
Box Wood top Pomade,		1 00 "
Glycerine & Camphor Roll		0 90 "
Soaps,		0 25 "

Prices of any articles will be given with pleasure when required.

Should any article purchased at his establishment not prove to be what it is represented, it can be returned at his expense, if not otherwise made satisfactory.

M. F. EGAR.

149 Hollis St.

Halifax.

Feb. 22.

DR. JOSEPH D. DAVIS

WOULD inform the public that after thirty years of study, investigation and practical experimenting 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 diseases.

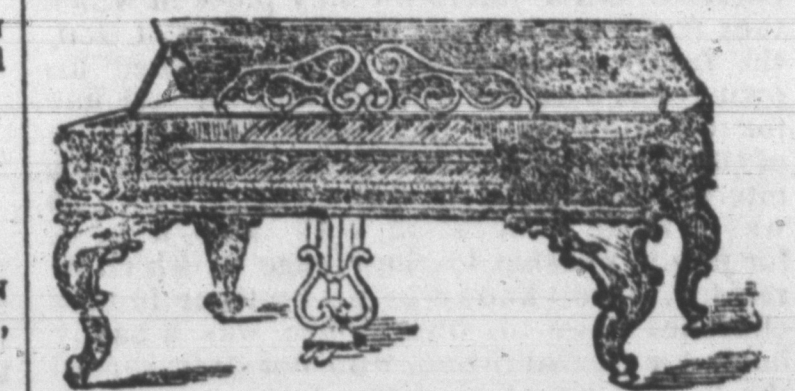
CAPE SABLE ISLAND, N. S.,
July 15th, 1870.

DR. DAVIS—

Dear Sir—The wisest of men has said that in “a multitude of counsellors there is safety.” Having been benefited by your medicines, I wish to say to all others who may be suffering from lung diseases. Early in 1869 my health began to give way, until with a lack of vital tone 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; which I counted, 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,

Dr. DAVIS has taken rooms at the LOVITT HOUSE, 68 Hollis Street, where he will remain until the 1st July next, and may be consulted daily from 11 a.m. to 6 p.m.
March 15.



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