Agriculture.

SMALL BIRDS.

A writer in the *Field* says that after vainly trying all sorts of expedients to keep sparrows and other small birds from his fruit and young vegetables, he found the following plan completely efficacious:—

"What, you will ask, in my talisman? Simply a ball of grey or whity-brown linen thread. I take a ball of this in my hand, fasten the end of it to one of the twigs of the gooseberry or currant bush, and then cross the thread backwards and forwards from twig to twig in perhaps a dozen different directions, fasten off, and the thing is done; and it will last two years—the thread on the tree, I mean. It is not necessary the thread should be white or coarse; it ought rather to be fine and dark—a thing to be felt, not seen I have watched the birds after performing the operation; they come boldly to settle on the trees, and they strike on those invisible snares, for such no doubt they deem them to be; they fly off in a terrible hurry, and settle on the walls or trees round about, longing and getting hungry, till at last they disappear, and you will see them no more.

"As regards peas and other seeds which I always sow in drills, I simply stretch a thread, sometimes two, along each drill at about two inches from the ground, supporting it at that height by little forked sticks, If you put it much higher that this, the birds do not seem to care for it—*it does not touch them*; that is the grand secret, something which touches them, something they do not well see, nor know what it means.

I have seen people put thick white string with feathers tied to it, and perhaps two feet from the ground. The birds soon understand these, and care little for them; in short, I know to my cost it sometimes acts as a lure, a notice to the birds that there is something to be had worth looking after. I will answer for it, any one adopting the plan I recommend will never have cause to complain of the birds, however numerous they may be."

BLACK KNOTS ON PLUM TREES.—Cut them all off immediately; they will spread all over the tree if left. I have a nice row of cherry trees. Three years ago a few black knots appeared on the limbs. I intended to cut them off, but neglect to do so, and the following spring the tree was covered (nearly) with them; also many appeared on the next tree to it. The tree never leaved again, but is now dead as a hammer. I cut off everything that showed signs of black knots from the rest of the row, and I think they are saved. I cut open several of the knots, and found them filled with small worms or grubs. I think they are as dangerous to a plum and cherry orchard as epizootic aphtha is to cattle. Brother farmers, be sure to cut them all off and burn them.—*Massachusetts Ploughman.*

WATERING PLANTS WITH HOT WATER.—It has lately been shown, by careful experiment, that sickly potted plants, even some that have almost died out, can be greatly benefitted, and sometimes, indeed, entirely restored to vigor, by applying warm water to them instead of cold. In certain cases, oleanders which had never bloomed, or did so only imperfectly, after being treated with luke-warm water, increasing the temperature gradually from 140° up to 170° F., produced the most magnificent luxuriance of bloom. Similar results occurred with an old plant of Hoya; and also with an India-rubber tree, which had nearly withered away. In all these cases, the application of water heated to about 110° F., without any other precaution, caused a new and flourishing growth.

To improve the size af potatoes, the *North British Agriculturist* advises that the shoots be reduced to one or two when they are only a few inches high. The tubers will be fewer but much larger.

Refined oil, for fine mechanism, can be prepared by putting zinc and lead shavings, in equal parts, into good Florence olive oil, and placing it in a cool place till the oil becomes colorless.

Nobody is more like an honest man than a thorough rogue.

Scientific.

In pasting wall papers, posters, etc, especially where successive layers are put on, there arises a most disagreeable effluvia, which is particularly noticeable in damp weather. The cause of this is the decomposition of the paste. In close rooms it is very unwholesome, and often the cause of disease. In large manufactories, where large quantities of paste is used, it often becomes sour and offensive. Glue, also, has often a very disagreeable odor. If, when making paste or glue, a small quantity of carbolic acid is added, it will keep sweet and free from offensive smells. A few drops added to mucilage or ink prevents mould. In whitewashing the cellar and dairy, if an ounce of carbolic acid is added to each gallon of wash, it will prevent mould and the disagreeable taints often perceived in meats and milk from damp apartments.

Another great advantage in the use of carbolic acid in paste for wall-paper and in whitewash, it will drive away cockroaches and other insect pests. The cheapest and best form of carbolic acid is crystal which dissolves in water or liquifies at an excess of temperature.

What gases are stored under pressure in the cavities of the earth, we know not. But we know that the increased expansive force of an elastic fluid under a comparatively small increase of temperature would be sufficient to rend asunder the solid rock, and produce the effects we see. Perhaps a fissure so opened may admit water to the heated nucleus, there to be instantly converted into steam with vast increase of volume. This, exerting enormous pressure against the rocky walls of the cavity in which it is formed, causes a wave of compression in the zone of the rock immediately surrounding it, and this wave is propagated onward through the rock, just as a wave travels through water. The confined fluid strikes the walls of its prison chamber a fierce blow, and this causes a shudder to run through the earth, which passes along the surface as a shock, whose intensity is the only measure we have of the forces causing it.—*Scientific Review.*

A good way to cook meat is to seal it in a vessel hermetically tight. Cooked thus a long time in its own juices, it is rendered very tender, and has a peculiar, appetizing flavor.

Take an earthen jar that will stand heat with tight-fitting cover. If beef is to be the dish for dinner, cut it in convenient pieces, lay them in the jar, rub each piece with salt and pepper and a little lump of sugar, and put in a little water; then lay on a piece of thick buttered paper, and press down the cover. If you think it will allow any steam to escape, mix shorts of rye-meal with water to a paste; press strips of this all round the edge of the cover. Bake in a moderate oven four or five hours, according to tenderness of meat. Chickens or turkeys are excellent cooked in this way. The toughest meat is rendered tender by this process; and none of the nutritious matter is wasted, as in many of the forms of cooking.

PAINT FOR SHINGLES.—Slake stone lime, by putting it into a tub to keep in the steam. When slaked, pass through a fine sieve, and to each six quarts of it add one quart of rock salt and one gallon water; boil and skim. To each five gallons of this add pulverized alum, one pound; copperas, one-half pound; potash, one half pound: hard-wood ashes, sifted, four pounds. Apply with whitewash brush.

Milk varies as much in caseine or cheesemaking quality as in cream. The best milk will give a pound of cheese to eight pounds of milk—the poorest, a pound to twelve. The average is ten. This shows that factories ought to receive by the pound, not by the quart.

To remove inkspots, put the article stained over a warm flat-iron, stretch it well, then squeeze a few drops of lemon juice on it, and the spot will disappear at once. Wash immediately in cold water.

Poison from bees, hornets, spider bites, etc., is instantly arrested by the application of equal parts of common salt and bicarbonate of soda, well rubbed in on the place bitten or stung.

MESSENGER ALMANACK.

JULY, 1871.

Full Moon, July 2nd, 9h. 22m. morning.
Last Quarter, " 9th, 8h. 55m. morning.
New Moon, " 17th, 1h. 13m. afternoon.
First Quarter, " 25th, 1h. 37m. morning.
Full Moon, " 31st, 5h. 2m. afternoon.

D. M.	Day Wk	SUN. Rise	SUN. Sets	MOON. Rises	MOON. South	MOON. Sets	High Tide at Halifax
1	Sa..	4 22	7 45	7 21	11 38	3 1	5 57
2	SU.	4 23	7 45	8 26	morn	3 55	6 54
3	M..	4 23	7 44	9 20	0 42	4 58	7 49
4	Tu..	4 24	7 44	10 1	1 45	6 10	8 41
5	W..	4 25	7 44	10 35	2 43	7 25	9 32
6	Th..	4 25	7 44	11 3	3 36	8 37	10 21
7	F..	4 26	7 43	11 28	4 26	9 49	11 8
8	Sa..	4 27	7 43	11 50	5 12	10 56	11 56
9	SU.	4 27	7 42	morn	5 55	A. 2	A. 45
10	M..	4 28	7 41	0 14	6 38	1 2	1 36
11	Tu..	4 29	7 41	0 37	7 21	2 5	2 34
12	W..	4 30	7 41	1 2	8 4	3 6	3 36
13	Th..	4 31	7 40	1 31	8 49	4 7	4 37
14	F..	4 31	7 40	2 5	9 35	5 5	5 37
15	Sa..	4 32	7 39	2 44	10 24	6 4	6 32
16	SU.	4 33	7 39	3 30	11 13	6 56	7 14
17	M..	4 34	7 38	4 23	A. 4	7 45	7 55
18	Tu..	4 35	7 37	5 22	0 54	8 26	8 32
19	W..	4 36	7 36	6 26	1 44	9 2	9 7
20	Th..	4 37	7 35	7 31	2 32	9 33	9 42
21	F..	4 38	7 34	8 38	3 19	10 0	10 16
22	Sa..	4 39	7 33	9 46	4 5	10 24	10 57
23	SU.	4 40	7 33	10 53	4 51	10 49	11 37
24	M..	4 41	7 32	A. 2	5 38	11 14	morn
25	Tu..	4 42	7 31	1 15	6 28	11 41	0 21
26	W..	4 43	7 30	2 29	7 21	morn	1 10
27	Th..	4 44	7 29	3 45	8 18	0 13	2 9
28	F..	4 45	7 28	4 59	9 19	0 51	3 20
29	Sa.	4 46	7 27	6 7	10 22	1 39	4 30
30	SU.	4 47	7 25	7 5	11 25	2 37	5 44
31	M..	4 48	7 24	7 52	morn	3 45	6 49

THE TIDES.—The column of the Moon's Southing gives the time of high water at Parrsboro', Cornwallis, Horton, Hantsport, Windsor, Newport, 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, 20 minutes *earlier*, than at Halifax. At Charlottetown, 2 hours 56 minutes *later*. At Westport, 2 hours 54 minutes *later*. At Yarmouth, 2 hours 20 minutes *later*.

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.

200 miles of road finished, and doing a profitable business.

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 Dudson Canal Company for the transport of their coal, which adds largely to the business and profits of the coal.

The PAID-UP CAPITAL of the Company is about $6,500,000, which it is believed is a larger 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.

ARCHIBALDS 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. Also, Archibald's Cough Mixture for Coughs, Colds, and all Lung Diseases.

The Proprietor has removed to Truro, Colchester 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.

Oct. 21. 1 yr.

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.

Price 8 cents or $6.00 per 100.

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.

☞Sold everywhere.

Sept. 14. 1y. eo3 mths.

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.

May 20. 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, Indspositon 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 efectually wean the taste from Stimulants and enable the system to dispense with them at once.

The proprietor, although averse to the practice of puffing any medicine, feels it his duty to give publicity to the following certificates.—Hundreds could be added, but such names as Dr. How, 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. 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.

(Signed) HENRY HOW, D.C.L.
King's College, Windsor.

MR. EAGAR,—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. EAGAR,—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. Eagar's PERUVIAN BITTERS, and can strongly recommend them.

Signed, DUDLEY DE CHAIR.
Halifax, June 3, 1869.

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. Dealers 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.

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

Be sure and obtain Eagar's Odontine Essense; 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.

If the above article cannot be obtained at the stores near where you live send the price in stamps to the subscriber's address and it will be forwarded immediately. Dealers supplied on liberal terms

M. F. Eagar.
149 Hollis St.
Halifax.

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.

Being agent for first class Surgical Instrument makers in London and Paris, their respective priced 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 Cup 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. EAGAR.
149 Hollis St.
Feb. 22. Halifax.

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 naries, 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.

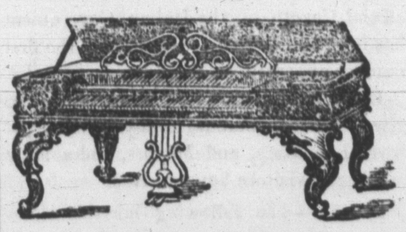
DR. DAVIS—

Dear Sir—The wisest of men has said that in "a multitude of counsellors there is safety." Having been benefitted by your medicines, I wish to say it to others who may be suffering from lung diseases. Early in 1869 my health began to give way, until such 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 sequal 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,

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.



Superior Pianos,

IN VARIOUS STYLES.

UPRIGHT, OBLIQUE, SQUARE, &c.

With all the latest improvements, manufactured by the subscribers, and especially adapted to this climate. An assortment of

THE "SILVER TONGUE."

A very fine toned CABINET ORGAN, by Carhart and Needham, N. Y.

The above are offered to a discriminating public at moderate prices,

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

Customs Department.

OTTAWA, May 20th, 1871.

AUTHORIZED Discount on American Invoices until further notice: 11 per cent.

R. M. S. BOUCHETTE,
Commissioner of Custom.

May 31.

Hats and Caps.

WE have now on hand a full Stock of all kinds, including the

NEWEST STYLES,

to which we invite the attention of our friends, both at

Wholesale and Retail.

Our prices are as low as any in the city.

Silk Hats made to order by Conformateur Measure, without extra charge.

EVERETT BROTHERS,
100 Granville St.

May 3.

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.

Subscribers beyond the Dominion of Canada, must send in addition to the above, 20 cents a year for prepayment of postage.

ADVERTIZING at usual rates.

STEPHEN SELDEN, Proprietor.

OFFICE No. 59 GRANVILLE STREET.
HALIFAX, N. S.

☞ PRINTING of Books, Pamphlets, Cards, Handbills, Blank forms, &c., &c., on reasonable terms.

Magistrates Blanks always on hand.