Agriculture.

EFFECTS OF IRRIGATION.—A correspondent of the *Country Gentleman* says:—We have a little experience in irrigating, which we will give for the benefit of others. Some 17 years ago we collected the water that ran in a highway some distance; led it into a small pond, and then, by ditches, over half an acre of meadow. This simple transaction cost half a day's work for two men and team, and no expense since. We are sure that we have obtained twice the quantity of hay for the past sixteen years, or in other words, eight tons of hay extra in that time, worth on an average $10 per ton—$80 for $3 worth of work irrigating. The quality of the grass has also improved. It is the larger part, now blue grass, very thick and tall, from 2 feet 6 inches to 3 feet above the cutter bar, which proves this grass the most reliable for irrigated meadow, as it steadily and surely runs out all others in our meadow; but on dry soils it is not a success with me, and we think it a waste of seed to sow it there.

TO REMOVE THE TASTE OF WOOD.—A new keg, churn, bucket, or other wooden vessel, will generally communicate a disagreeable taste to anything that is put into it. To prevent this inconvenience, scald the vessel well with boiling water, let the water remain in it until cold; then dissolve some pearlash or soda in lukewarm water, adding a little lime to it. Wash the inside of the vessel well with this solution. Afterward scald it well with hot water, and rinse with cold water before you use it. The reason for this is the ready combination of resinous matter with alkalies to form compounds soluble in water.

HAVE YOU ENOUGH FODDER?—Cattle, horses and sheep will eat per day three pounds of hay, or its equivalent, per one hundred pounds live weight. Half a pound of hay, two pounds of good straw, and three fourths of a pound of grain, are usually equivalent to three pounds of hay. A little more grain will put on fat. On this basis fair estimates can be made.

STEAMING FOOD.—A great advantage arising from steaming all the food for stock in which there are liable to be seeds of any description, is that the vitality of such seeds is destroyed, and the manure is freed from all such noxious weed seeds, a matter of much greater importance than it is generally considered by agriculturalists generally. The chaff of our grain crops which contain most of the foul seed gathered with the crops should be steamed to destroy the vitality of the seed, ere it goes into the manure heap. If not steamed before it is returned to the land, it would be better to burn it rather than take such an amount of foul seeds back on the land.

REMEDY FOR A SPRING KNEED HORSE.—We find the following recommended when this trouble is caused by a contraction of the muscles or sinews: Pare down the heels of his feet as low as possible, have him shod with a toe upon the shoe, and no corks. Use a penetrating liniment, which will cause the sinews to stretch. Take half a pint of spirits of wine, one ounce bear's oil, one ounce neat's foot oil, one ounce spirits of camphor, one ounce oil of origanum, one ounce oil of sassafras, one ounce laudanum; mix it all well in a bottle; rub it in well with the hand. This is a very penetrating liniment, and will effect a cure.

STEAMED BROWN BREAD.—One cup of Indian meal, two cups of rye, one cup of molasses, two cups of milk, half teaspoonful of soda, the same of salt. Stir well together and steam three hours, taking care that the water does not stop boiling. Add boiling water as the water boils away. If you wish it hot for breakfast—steam the day before—and in the morning set it in the oven for half an hour to form a good crust.

For chicken cholera, says the cousin of Governor Wise, "mix up corn meal with water, and to a gallon of mush add a gill of soot, well mixed, and feed to your fowls two or three times a week, as a preventive, and twice a day as a cure; and if your fowls are not too far gone to eat, every one will be cured."

Scientific.

A GIGANTIC RAILWAY PROJECT

At present the shortest line of travel for passengers between England and India is by way of Brindisi, Alexandria and Suez, to Kurrachee or Bombay, requiring twenty days for its accomplishment. To reduce the time from England to India, to a little more than five days, is the proposition of Messrs William Low and George Thomas, who, in a communication to Mr. Gladstone, have set forth a scheme, the leading features of which are as follows:

First, to use existing lines of railway and the Mont Cenis Tunnel to Trieste, and thence to construct a railway through Austria, European and Asiatic Turkey, Persia, and Beloochistan, to Kurrachee and to Bombay.

The route proposed is as follows; From Trieste, by Flume to the eastern shore of the Adriatic Sea, thence southwards to a point nearly opposite Brindisi; thence eastward, across Turkey, north of the Archipelago and the Sea of Marmora, to Constantinople; thence crossing the Bosphorus and turning southward at Scutari, reaching the Mediterranean at Adalia, thence skirting the coast to Alexandretta; thence southeasterly to the west end of the Persian Gulf; thence following the shore of the Gulf and of the Arabian Sea to Kurrachee and thence to Bombay.

The distance, including the Straits of Dover, is stated to be 5,339 miles. Allowing a speed of 40 miles per hour by land, and 10½ miles per hour by water, the time that would be required for this journey would be 5 days, 16 hours, and 46 minutes. Estimating the rate of travel by land at 30 miles per hour, the time for the journey would be 7 days, 13 hours, and 22 minutes.

There are already 1,170 miles of this line now constructed, and it is estimated that the completion of the remainder would cost about $205,000,000.

Messrs. Low and Thomas propose that the countries, through which the line would pass, shall share in the expense of construction.

Other financial features of their scheme are the formation of an Anglo-Indian Company, that shall construct and maintain the permanent way, and subordinate companies that shall construct and maintain stations, sidings, etc., for local traffic.

The projectors apprehend, very justly, we think, that the raising of the capital and the organization of companies would be the chief difficulty to be surmounted. Allowing a year's time for the preliminary business, they think the road might be completed and running within three years of the present time.

Were there not some precedent in the rapid completion of the Union Pacific Railway in this country, this scheme might be considered visionary and impracticable; but it has been demonstrated that the mere length of railways is a matter of small importance as affecting their speedy completion. The procurement of the necessary agreement on the part of the various governments, the territory of which it is proposed to traverse, is a work of greater magnitude than the building of the road itself; and, should the projectors succeed in accomplishing this, there may be some chance for the success of their project.

The rapid growth of the modern railway system is appreciated by very few, and the magnitude of some of the enterprises, now looked upon as feasible, is something that the last generation little dreamed of. Five thousand miles is a long distance, and two hundred millions of dollars quite a respectable sum of money, yet these things are talked about now-a-days without scarcely producing a sensation in the commercial world.—*Scien. American.*

There is but a breath of air and a beat of the heart between this world and the next.

It is every way better to do what God intends for us than what we intend for ourselves.

Vice stings us even in our pleasures, but virtue consoles us even in our pains.

Sir Thomas Overbury says that a man who has not anything to boast of but his illustrious ancestors, is like a potato, the only good belonging to him being under ground.

MESSENGER ALMANACK.

NOVEMBER, 1871.

Last Quarter, Nov. 5th, 8h. 41m. morning.
New Moon, " 12th, 0h. 54m. afternoon.
First Quarter, " 19 h, 4h. 32m. morning
Full Moon, " 26th, 4h. 39m. afternoon.

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

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

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.

Wholesale Dry Goods Warehouse.

Fall—1871.

95 & 97 GRANVILLE STREET.

ANDERSON, BILLING & CO.

HAVE now completed their Importations for this Season.

They invite Wholesale Buyers to an inspection of their Stock, which, being purchased at prices much below manufacturers present rates, will be found deserving of attention.

ANDERSON, BILLING & CO.

Sept. 27.

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All kinds of work Plated & Gilt.

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Sep. 6. 3m.

American Organs.

A New and Popular Series of Instruments.

The Manufacturers, desirous of meeting the general desire for organs with all substantial excellences and at a moderate price, have designed and made a series of styles that *are in all respects superior* to any instruments for similar prices; namely from $1 0 to $200.

Not only are the cases of new and tasteful designs, but every part of the mechanism has been subjected to the most careful scrutiny in order to *combine all the elements* that can be looked for.

Numbers One, Two and Three are designed for private use. Number Three has a new and exquisite Solo stop, named

THE KALOPHON.

The tone possesses a most fascinating quality, closely resembling the real VOX HUMANA, being delicate and sympathetic, and free from the disagreeable tremor that haunts most of the mis-called VOX HUMANA stops.

Numbers Four and Five will found especially effective in churches of moderate size.

Number Four has an Octave of Sub-bass, and Number Five both Sub-bass and an Octave Coupler, giving a great increase of power, but with no sacrifice of sweetness.

LARGER AND MORE COSTLY STYLES are also offered, of which the catalogue of the manufacturers will give information. Send for circular! Address

The Smith American Organ Co.

BOSTON, MASS.

C. E. GATES.

AGENT FOR THE PROVINCE.

For sale in HALIFAX by S. SELDEN.

May 17.

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, Indispositon 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.

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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

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149 Hollis St.
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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.
Halifax.

Feb. 22.

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Best Farming and Mineral Lands in America.

3,000,000 Acres of Choice Farming and Grazing Lands on the line of the road, in the STATE OF NEBRASKA, IN THE GREAT PLATTE VALLEY,

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Aug. 9th, 3m*

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