

Agriculture, &c.

COOKED vs. RAW FOOD.

Experiments made by M. M. Raspail and Biot, of the French Academy of Sciences, seem to have resulted in establishing the following points:

- 1. That the globules constituting meal, flour and starch, whether contained in grain or roots, are incapable of affording any nourishment as animal food until they are broken.
2. That no mechanical method of breaking or grinding is more than partially efficient.
3. That the most efficient means of breaking the globules is by heat, by fermentation, or by the chemical agencies of acids or alkalis.
4. That the dextrine, which is the kernel, as it were, of each globule, is alone soluble, and therefore alone nutritive.
5. That the shells of the globules, when reduced to fragments by mechanism or heat, are not nutritive.
6. That though the fragments of these shells are not nutritive, they are indispensable to digestion, either from their distending the stomach, or from other causes not understood; it having been found by experiment that concentrated nourishment, such as sugar or essence of beef, cannot long sustain life without some mixture of coarser or less nutritive food.
7. That the economical preparation of all food, containing globules or fecula, consists in perfectly breaking the shells and rendering the dextrine contained in them soluble and digestible, while the fragments of the shells are at the same time rendered more bulky, so as the more readily to fill the stomach.

JUDGING OF A HORSE BY HIS FEET:—The philosophy of those who are under the turf is refuted by those who are on the turf. It used to be said, in regard to horses:
One white foot, buy him;
Two white feet, try him;
Three white feet, deny him;
Four white feet and a white nose,
Take off his shoes and give him to the crows.

But the advent of Dexter has changed the sinister rhyme to:
One white foot, spy him;
Two white feet, try him;
Three white feet, buy him;
Four feet white and a white nose,
And a mile in 2,17 he goes.

TOO MUCH FAT.—An example of the excess to which the fattening process is carried, in some of the English show pigs, the Irish Farmers' Gazette states that three of the fat pigs at the Islington agricultural show died of apoplexy. It seems that these interesting creatures had been accustomed to pillows, on which they rested their heads when not engaged in eating. The pillows in question, consisting of billets of wood, had unfortunately been forgotten, the pigs dozed off as usual after their meal, and such was their plethoric condition that they passed away in their sleep. It is stated as a fact that some of these fatted pigs require at times such stimulants as port wine and sal volatile to keep them up.

NEW WAY OF COOKING POTATOES.—Wash and wipe the potatoes dry. Place them in a flat-bottomed cast-iron pot, on the back of the stove, covering the kettle with a close-fitting iron or tin cover. The steam of the potato is sufficient moisture for them. They will cook in an hour and ten minutes, and are very nice and healthful.—Laws of Life.

STONE FENCES.—Form the foundation 2 1/2 feet wide at the base, place the stones so as to have the largest ends outside, and that all the stones will have a tendency to fall inwards instead of outwards. The two sloping sides thus formed will, if the stones are large enough, bear one against the other; or if too small, they will press against the middle stones used to fill up with; gradual ascent is thus made, and when the wall reaches three feet high, the top is about 12 to 16 inches wide, and is finished with a rounded capping of smaller stones.

Mr. Rawlinson, an eminent English engineer, in a report to Parliament about the sewers of London, estimates the marketable value of the matter accumulated there at £1,000,000, and states that it would enrich 70,000 acres of land.

Scientific, &c.

BRIDGES FOR THE INTERCOLONIAL RAILWAY.—It appears from the returns respecting this great work that there will be at least sixty-six bridges, embracing sixteen spans of 200 feet each, sixty of 100 feet, ten of 80 feet, nineteen of 60 feet, eighteen of 50 feet, fifteen of 40 feet, five of 30 feet, and two of 24 feet. With regard to the probable cost of these bridges with iron or with wooden spans, Mr. Sanford Fleming, the Chief Engineer states that iron girders will cost about twice as much as wooden trusses in large spans only, but that the adoption of the former would effect a saving in masonry, on the line between Truro and Riviere de Loup of not less than 11,452 cubic yards. In support of this general view he estimates that the spans on wood and masonry would cost in the aggregate \$1,494,459, while in iron and masonry they would only come to \$1,295,609. He consequently recommends that every bridge should be made of iron instead of wood.

VERY POOR GEOLOGY.—Some remarkable facts in confutation of Sir Charles Lyell's theories of the myriad ages of geological evolution are supplied by the investigations of Professor Kjerrulf, of Christiania, who is making the survey of the Norwegian coast for the Government. He has examined the raised beaches and terraces, and declares Sir C. Lyell's theory (which requires 240,000 years for their present elevation) to be utterly baseless. In the first place, he says the uppermost limit of the sea action is only one-tenth as high as Lyell states, and consequently that this single correction would cut down his figures from 240,000 to 24,000 years. Secondly, he proves that the coast has not risen by a constant slow motion, but by a series of sudden elevations, separated by periods of perfect rest; and consequently that all calculations based upon a supposed uniform rate are worthless, and the total time spent in the elevation may have been very short. Finally, he says, the idea that the coast is now rising is entirely erroneous, this being a stationary period.

A THOUSAND BOYS WANTED.—There are always boys enough in the market, but some of them are of very little use. The kind that are always wanted are:
1. Honest. 2. Pure. 3. Intelligent. 4. Industrious. 5. Active. 6. Obedient. 7. Steady. 8. Obliging. 9. Polite. 10. Neat.
Fully one thousand first-rate places are open for a thousand boys who come up to the standard. Each boy can suit his taste as to the kind of business he would prefer. The places are ready in every kind of occupation.

The perfume of a thousand roses soon dies, but the pain caused by one of their thorns remains long after: a sudden remembrance in the midst of mirth is like that thorn among the roses.

A painter in London exhibited a picture representing a friar in his canonicals. At a distance the friar appeared praying. His hands were clasped and his eyes cast devoutly downwards. But a nearer view revealed the fact that he was gazing into a punch-bowl instead of a prayer-book, and instead of clasping his hands in prayer he was squeezing a lemon.

In England, a smoke-consuming apparatus has been perfected, which has been tested with highly satisfactory results. The Directors of the Towerby Bridge Flour Society state that they expended £400 on the apparatus, which not only effected the consumption of the smoke but enabled them to grind a much greater quantity of flour than in the preceding half year, with a saving of fuel of £123.

WHEN you have a hard, cold ride in a cutter, of ten or twenty miles, against the wind, place a spread newspaper over your chest before you button up your overcoat, and you will not become chilled through. Nothing can be cheaper, and, as far as it goes, nothing more efficient.—Country Gentleman.

It is a noticeable fact that people who change their mind often never get a good one.

California raises mushrooms a foot in diameter.

MESSENGER ALMANACK.

APRIL, 1871.

Full Moon, April 5th, 10h 8m. morning. Last Quarter, " 12th, 1h. 37m. morning. New Moon, " 19th, 2h. 49m. afternoon. First Quarter, " 27th, 7h. 33m. afternoon.

Table with columns for Day, SUN, MOON, High Tide, and Low Tide. Rows list days from 1st to 30th with corresponding astronomical data.

THE TIDES.—The column of the Moon's Southings 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 MUSIC BOOKS. Includes musical notation and text: 'I have found Mr. Eggar'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.B. King's College, Windsor.'

NEW MUSIC BOOKS. Includes musical notation and text: '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.'

NEW MUSIC BOOKS. Includes musical notation and text: 'I have tried Mr. Eggar's PERUVIAN BITTERS, and can strongly recommend them. (Signed) DUDLEY DE CHAIR, Halifax, June 3, 1869.'

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 Eggar'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.

NEW WHOLESALE DRUG STORE, 149 Hollis St., Halifax. The subscriber is prepared to execute orders for Drugs, Chemicals, Perfumery, Patent Medicines, Pains, 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 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 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 readily satisfactory. M. F. EAGAR, 149 Hollis St., Halifax, Feb. 23.

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 & KNUTE.

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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.

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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:

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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. Eggar's PERUVIAN BITTERS, and can strongly recommend them. (Signed) DUDLEY DE CHAIR, Halifax, June 3, 1869.

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