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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 Tormen-

tine, 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. A Westport, 2 hours 54 minutes LATER. A Yarmouth, 2 hours 20 minutes

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.

Ayer's Hair Vigor,

For restoring Gray Hair to in a year. its natural Vitality and Color.



which is at once agreeable. healthy, and effectual for preserving the hair. Faded or gray hair is soon restored to its original youth.

Thin hair is thickened, falling hair checked, and baldness often, though not always, cured by its use. Nothing can restore the hair where the follicles are destroyed, or the glands atrophied and decayed. But such as remain can be saved for usefulness by this application. Instead of fouling the hair with a pasty sediment, it will keep it clean and vigorous. Its occasional use will prevent the hair from turning gray or falling off, and consequently prevent baldness. Free from those deleterious substances which make some preparations dangerous, and injurious to the hair, the Vigor can only benefit but not harm it. If wanted merely for a

HAIR DRESSING,

nothing else can be found so desirable. Containing neither oil nor dye, it does not soil white cambric, and yet lasts long on the hair, giving it a rich, glossy lustre and a grateful perfume.

Prepared by Dr. J. C. Ayer & Co., Practical and Analytical Chemists,

LOWELL, MASS. Brown & Webb, Halifax, Wholesale Agents, Dec. 11. 1y.

Just Published. TANNERS' CHEMISTRY

BY PROFESSOR LAWSON, Ph. D., &c

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Oct. 22.

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1070 A WEEK. \$12 a day at home P Leasily made. Costly Outfit free. Address TRUE & Co., Augusta, Maine. *Sept. 29, 1880.

THE FARM.

CHARCOAL AND LIME.—These two articles play a very important part in the management of fowls, whether bred in a fancier's yard or on a farm. Charcoal should be liberally fed, for no one thing is more conducive to health than is this. It should be broken in small lumps and put where the fowls can get at it, and they will eat it with great relish. We have seen it fed to pigs with the very best results, and those which were treated to it were never troubled with disease or sickness while neighbouring ones were. This helps to prove its value, not only for swine, but for fowls. Where the birds are kept in confinement it is a very good plan to keep a small trough in a sheltered place, full of small bits of fresh charcoal, and the fowls will soon learn to help themselves. The value of lime in the form of white-wash is well known, and those who use it liberally are the ones who keep their flocks healthy and cleanly. To render whitewash more effective in dislodging, driving away or destroying lice and other parasitic nuisances, the addition of a little carbolic acid is invaluable, for scarely anything else seems to be so distasteful to the vermin. Air-slacked lime should be occasionally scattered over the floor- of the chicken-house, to remove unpleasant and unhealthy odours, while a little of it should be scattered around the yards and runs, for material for egg-shells. Oyster shell lime is the best for this purpose.

It is recommended to lay in a stock of sods before cold weather, and stack them up in a corner of the hen-house or elsewhere under cover, where the hens can get at them during the winter. After snow comes, the biddies will find a good deal of employment for their leisure time, at least, if not more substantial benefit, in picking the heap to

Vermont boasts the best butter cow in the country. J. S. Kenerson, of Barnet, owns her, and she has made 675 pounds

SINGULAR.—Upwards of fifty years ago, Mr. Simon Oulton, of Marshy Hope, cleared a field on the rear of his farm. One day last week, a party of men were engaged chopping the second growth of wood on the same ground, and Mr. Oulton was among them, and though bordering on three score and ten. Some of these second growth trees measured over a foot in diameter.

The banking of celery (saye W. D. Philbrick in The American Cultivator) is hard work, and requires two operations or shovelings to complete it. At the first banking, the earth between the rows is made mellow with a plough, and then three men are needed, two with long-handled shovels to throw the earth up, while the third gathers up the the spreading stalks in his hands. This raises the bank about half way up the stalks. After a few days' interval to allow the earth to settle and the celery to grow, it is ploughed and shovelled again, raising the banks to the very tops of the leaves. In ten to fifteen days after the last banking it will be fit to dig for use. The old custom of earthing up the celery by degrees during summer has few followers now. It produces an inferior article subject to much loss by rust, and is too troublesome for practice on a large scale.

THE HOUSE.

thoroughly boiling the leaves and stems of the tomate is an excellent insecticide. It destroys the green or black fly, caterpillars, etc., and leaves behind a peculiar odor that prevents insects coming again for a long time. It is to be put on with a syringe when cold.

TOMATO SOUP .- Boil a veal and a beef bone the day before the soup is to be used. The next day fry in butter two onions, two carrots, parsley, twelve cloves and a bay leaf till brown. Add this with a half a can of tomatoes to the soup. Boil two hours and strain before using.

BAKING-DAY, PUDDING .- After the take about as much as would be requirout and spread over with butter, and

hot sauce.

A practical Vermonter tells "the American Cultivator how to "burn a chimney out." He chose a rainy day. There had so much soot accumulated that it made a very hot fire, but by giving only a little draught the burning was safely performed. Although the day was still, the fire roared like an engine, and red-hot cinders fell hissing upon the wet roof, showing the terrible result that would have followed had the chimney taken fire on a dry and windy day. He adds: Chimneys that are in constant use ought to be cleaned every year. If there are two holes for funnels the fire should be started at the closed until the soot is well done smoking, else fire and smoke will fill the room. If the chimney chances to take fire on a day when it is not safe to let it burn out, the fire may be checked at once by closing the front draughts and fire in the stove.

To retain the color of any vegetable, plunge it into cold water after boil-

Cooks make the mistake of boiling things so much. After reaching the boiling point, meats should simmer. The toughest meats can be made tender by so doing.

At is always best to under-season rather than to over-season food.

When anything is accidentally made too salt, it can be counteracted by adding a tablespoonful of vinegar and a tablespoonful of sugar.

Meats of any kind should not be washed, but wiped with a towel to preserve the juice and quality.

SCIENCE.

New Inventions.

Some of the inventions exhibited of late are worthy of more than a passing notice. Here are two or three:

WATER-DRAWER.

The Champion Water-drawer merits attention. It consists of a compact well-cover, with a windlass and improved running gear. The bucket is oak, with an iron bottom in which are valves which admit the water and close as the bucket rises. When the bucket able to do as good a day's work as any, is brought to the top of the well it is caught by a horizontal rod and tilted so that the water is emptied into a spout through which it flows into any vessel that may be placed outside to receive it. The bucket is thus tilted and emptied by the mere turning of the handle of the windlass, and it is held at any point in its ascent by a self-working ratchet. Price, with covered top, \$12.50. Exhibited by A. B. Farquhar, York, Pn.

AN ARTIFICIAL MOTHER.

Sentimentally, it might seem cruel to usher tender infants into the world without a mother to care for them. But this is just what the Perfection Incubator is doing. It must be admitted, however, that it succeeds in meeting all the requirements of a mother, affection alone excepted. It is heated by an ordinary stove which may be used at the same time for cooking and heating. It claims to be perfectly self-regulating in respect to temperature and ventilation, while yet very simple in mechanism. The chicks are not remorsely thrust upon an unfeeling world so soon as they are hatched, but a sort of children's play-ground or day nursery is provided for them in the machine, until they are able to take care of themselves; and, to satisfy the craving of the filial in-It is said that the liquor made by stinct, an artificial hen is placed there, so that when alarmed or seeking repose, they may nestle beneath its wings.

Various methods are resorted to for securing the maximum amount of agitation. There are the old-fashioned vertical motion, the horizontal, or swing motion, and the common rotary motion. The Stoddard or barrel-churn (endover-end) has a good look. By an ingenious device the lid may be removed HALIFAX and CAPE BRETON and replaced instantly with one hand. It is air-tight, and is said to be especially adapted to the granular system of making butter.

Several churns, operated by dogpower, drew crowds of curious people. It is surprising that dogs are not more bread dough has risen enough to knead, generally used for this and kindred purposes. It is not (or need not be) a ed for a loaf of bread, work it well, roll severe tax on the dog, and yet it would save the busy house-wife much time with any kind of fruit, either stewed or fresh; roll it up, tie it in a well-floured cloth, leaving plenty of room to swell Set it to rise as you would bread; when Se

risen well, put it in boiling water, and bail an hour and a half. Eaten with To Architects, Builders and Others.

BROKENSHIRE'S PATENT MINERAL

FIRE-PROOF ROOFING

-AND COMPOSITION FOR-

Paths, Sidewalks and Cellar Floors!

PATENT MINERAL FIRE-PROOF ROOFING.

There is an old saying that "necessity is the mother of invention," and perhaps nothing is felt, as a want, by our Builders and Architects, more than a good Material to cover flat roofs, and one that dependence can be placed in. It must be one that will be proof against fire and water, and one that will neither crack with the frost of winter nor run with the heat of summer. These faults have been upper one, and the lower one kept found with other Roofing Materials, and have been the cause of much annoyance as well as serious expense.

A material to meet these shortcomings has been invented and patented by Mr. JOHN BROKENSHIRE, of Kingston, Ont., who has succeeded in introducing it extensively in that locality; and wherever it has been used it has given the greatest satisfaction.

This roofing is pronounced by competent judges to be "far superior to anything yet discovered for SAFETY and DURABILITY, being perfectly safe from sparks throwing a handful of fine salt upon the or blazing shingles, and quite impervious to winter frost or summer heat." PATHS, SIDEWALKS and CELLAR FLOORS made of this Composition become

hard and durable almost as iron, and proof against atmospheric influences. The undersigned is now prepared to show samples of the Roofing, and to receive and attend to orders for spring and summer operations. The Prepared Roofing and Composition may be had in barrels, and sent to any

part of the Province, together with full directions for use. The most Perfect Satisfaction Guaranteed!

Price and full particulars and testimonials on application to GEO. FRASER.

Agent for the Maritime Provinces and Newfoundland. Bedford Row, Halifax, July 1st, 1880.

AT THE PROPERTY OF THE PARTY OF INTERCOLONIAL RAILWAY.

SUMMER ARRANGEMENT.

TRAINS leave Halifax daily (Sunday L excepted) as follows: (Halifax time.)

At 8.25 a. m.—Express for St. John, Pictou, and intermediate places. At 12.15 p.m. - Accommodation for Pictou. At 5.30 p. m.-Accommodation for Truro. At 6.45 p. m.—Express for St. John and Quebec.

WILL ARRIVE :-

At 9.45. a. m. - Accommodation from Truro. At 10.45 a. m.,—Express from Quebec and from St. John. At 2.50 p. m.—Accommodation from Pic-

At 7.45 p. m. - Express from St. John. June 8, 1880.

Windsor and Annapolis Railway.

Summer Arrangement, For Halifax Time add 16 minutes.

Miles.	GOING	WEST	Express	Freight, Mo and Frida	Pass. & Frg	
1	Halifax	Leave	A. M. 7 45	9 00 P.M.	P. M. 3 00	
46 64	Windsor. Wolfville.		9 40	12 30 1 36	6 10 7 13	
71	Kentville, Do. Berwick.	Arrive Leave	10 50	2 00 2 30 3 18		
	Middleton. Annapolis.	Arrive	12 23	4 53 6 40		
	St. John,	do	7 30			
Miles.	GOING	EAST.	Pass. and Freigh	Pass Tues and	Express Daily.	
	St. John,	Leave	A.M.	A. M.	A.M. 8 00 P.M.	
	Annapolis, Middleton. Berwick.	d Leave		6 30 8 20 9 46	2 10 3 27	
.59	Kentville,	Arrive Leave	6 35	10 40	4 47	
66	Wolfville.		7 02	11 45 P.M.		
	Windsor,	Arrive				

Steamer "Empress" leaves St. John every Monday, Wednesday and Friday for Digby and Annapolis, and leaves Annapolis on arrival of Express Train from Halifax at 1.40 p. m. every Tuesday, Thursday and Saturday for Digby and St. John.

RAILWAY.

Leaves Antigonish at 9 a.m., and New Glasgow at 1.45 p. m. Arrives at New Glasgow at 11.30 a. m., and at Antigonish at 4.15 p. m.

Western Counties Railway.

Train leaves Yarmouth daily at 7.45 a. m., and arrives at Digby at 11.15 a. m. on Monday, Wednesday and Friday; and at 11.45 a. m., on Tuesday, Thursday and

BAPTIST CHURCH REQUISITES.

Articles and Covenant \$1.00 per 100. Church Record and Register \$2. and \$3 Alphabetical List of Members 40 cents

Letters of Dismission 50 cts. per quire. Psalmists, in all varieties, from 85 cts. Baptist Hymn Book from 50 cts. Baptists Hymn and Tune Book \$1.00 and \$2.25.

Scripture Catechism, \$6.00 per 100. CHRISTIAN MESSENGER OFFICE. No. 69 & 71 Granville St., Halifax. April 15.

For it is sadly too true that thousands of children are STARVED TO DEATH every year by improper or insufficient food. Remember,

RIDGE'S FOOD

INFANTS AND INVALIDS.

Is all and a great deal more than we have claimed for it. It is simply a HIGHLY NUTRITIOUS and easily assimilated FOOD, grateful to the most delicate and irritable stomach, and especially adapted for the INFANT and GROWING CHILD.

Invalids, Nursing Mothers, and those suffering from Indigestion will find on trial that RIDGE'S FOOD FOR INFANTS AND INVALIDS, IS all they can desire. It is carefully putup in four sizes.

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WOOLRICH, Dispensing and Family Chemist, Upper Water St., Depot for Ridges Food, Pick-me-up Bitters, &c., with a well-assorted stock of Pure Drugs. April 17

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