

The Christian Messenger.

ALMANAC FOR JULY.

New Moon, July 3rd, 1h. 10m. morning. First Quarter, " 10th, 6h. 25m. morning. Full Moon, " 18th, 9h. 12m. morning. Last Quarter, " 25th, 4h. 25m. afternoon.

Table with columns for Day, SUN. (Rise, Sets, Rises, Sets), MOON. (Rise, Sets), and High Tide. Rows list days from 1st to 31st.

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.

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 24 hours, and to the remainder add the time of rising next morning.

Business College, Hesslein Building, Hollis Street, HALIFAX, N. S. Designed to Educate Young Men for Business. DAY AND EVENING.

BETCHER'S PECTORAL MIXTURE FOR Coughs, Colds, Whooping Cough, Asthma, &c. CERTIFICATES.

Dear Sir,—Having used a half dozen bottles of your valued Pectoral Mixture I find myself greatly relieved from a chronic cough, and pulmonary weakness which had been preying upon my system for over a year, and would recommend it to all who are suffering from like complaints.

CONSUMPTION CURED. To the Editor of Christian Messenger. ESTEEMED FRIEND: Will you please inform your readers that I have a positive CURE FOR CONSUMPTION and all disorders of the Throat and Lungs, and that by its use in my practice, I have cured hundreds of cases, and will give \$1,000.00 for a case it will not benefit. Indeed, so strong is my faith, I will send a Sample, free, to any sufferer addressing me.

Dr. T. F. BURT, 26 ins, Aug. 5.

Agriculture.

How CAN THE GRASSHOPPERS BE UTILIZED?—The Minnesota State authorities have hit upon a way of clearing the four counties to which the grasshoppers have confined their ravages, which certainly deserves credit. It is praiseworthy for several reasons, for it has set the people inventing, provided them with lucrative work at a time when the destruction of their crops threatened to cut off all income, and actually put the grasshopper at a premium. The plan is simply to buy the grasshoppers from the farmers at ten cents a quart. The people have fairly jumped at the offer and it is said that, in every town in the four counties, wagon load after wagon load of the hoppers is arriving, until now the pest is almost exterminated. In one county 1,000 bushels were paid for, and this was one day's catch. One farmer made \$55 for the labor of his family for twenty-four hours. Another has driven parties off his farm with a pitch fork since the bounty system has been adopted, claiming the grasshoppers as his, and that he alone had a right to catch them. Still another individual, of a pious turn of mind, who refused to aid in burning the hoppers, on the ground that they were a dispensation of Providence and should not be interfered with, as soon as the reward was offered set his entire family to work, and added his own labor all day Sunday, making a nice sum by his endeavor.

Several ingenious traps have appeared, propelled by horse power, by means of which from five to twenty bushels of the insects are easily taken in a day. When brought to the designated receiving places, they are immediately paid for and buried in a deep trench. Blue Earth county has already bought fifteen thousand dollars worth.

Now, who will invent a use for these millions of collected insects? There is an enormous fortune in the invention, and it seems a waste to dispose of them by simple burial. Will they not yield a coloring matter, or an oil? Desiccated and ground, would they of any use as a fertilizer? Cannot some of our chemical readers experiment and favor us with results?—Scientific American.

VALUE OF EARTH-WORMS.—The common earth-worm, though apt to be despised and trodden on, is really a useful creature in its way. Mr. Knapp describes it as the natural manure of the soil, consuming on the surface the softer parts of decayed vegetable matters, and conveying downwards the more woody fibres, which there moulder and fertilize. They perforate the earth in all directions, thus rendering it permeable to vegetable life. According to Mr. Darwin's mode of expression they give a kind of under-tillage to the land, performing the same below ground that the spade does for the garden, and the plough for arable soil. It is, in consequence, chiefly of natural operations of worms that fields which have been overspread with lime, burnt marl, or cinders, become in process of time covered by a finely divided soil, fitted for the support of vegetation. This result, though usually attributed by farmers the working down of these materials, is really due to the action of earth worms, as may be seen in the innumerable casts of which the initial soil consists. These are obviously produced by the digestive proceedings of the worm, which take into their intestinal canal a large quantity of the soil in which they feed and burrow, and then reject it in the form of the so-called casts. 'In this manner, says Mr. Darwin, a field, manured with marl, has been covered in the course of 80 years, with a bed of earth averaging 13 inches in thickness.'—Encyclopaedia Britannica.

WHEAT FOR FEEDING SWINE.—The following experiment is vouched for by the Kansas Farmer as coming from a good and reliable farmer. As showing the relative value of corn and wheat for fattening hogs, it is valuable. He took 100 hogs and put in pens and fed corn, and fifty and fed wheat, with the following result. The fifty with the corn made eleven pounds per bushel; the fifty with wheat made seventeen pounds of good solid pork per bushel of wheat. The wheat was ground like meal, boiling water poured over it, and then let stand forty-two hours.

One of the latest discoveries in the excavations at Rome is a magnificent bust, in perfect condition, of the Empress Plotina, wife of Trajan.

Science.

FISH CULTURE.—Hon. Robert Roosevelt, Fish Commissioner for this State, delivered a lecture at the Cooper Institute, recently, on "Pisciculture," which he concluded as follows: "Not only can fish be raised as easily as vegetables are raised, but with a productiveness tenfold greater. The waters will yet teem with them, and our rivers and lakes will be cultivated precisely as the land is cultivated, till they shall support, acre for acre, as many human beings. Nor is this all, but acclimatization has done much for the tillage of the earth; it is destined to do much for the tillage of the seas. New breeds of animals have been introduced into countries to whose climate they were specially adapted; care in breeding has raised others to higher development; while vegetables and grasses have been cultivated scientifically and brought into new areas where they flourish with increased luxuriance. The same will be done with fish. Shad will be taken to the Pacific, salmon will be brought to our own doors, the great trout of Maine, weighing ten pounds apiece, will replace the fingerlings of our brooks, and bass will abound in every bay, lagoon or inlet of our salt water. The entire science has been for our day and generation, when the thorough exploration of the world and the rapid increase of population makes it necessary. We have only to do our duty in order to secure for ourselves and our fellow men the full benefit of the wonderful discovery.

"Among the benefactors of the human race is classed one who makes two blades of grass grow where only one grew before. Much more praise is due to Him who teaches us to cultivate what has heretofore been left waste and barren, and converts it into fields of fruitfulness and abundance.

But fish culture is not wholly a question of beneficence or benevolence, it is a business interest, largely public perhaps, and teaching man a more brotherly feeling of mutual dependence and a wiser use of the common heritage, but also private as far as the proceeds of the art can be kept as individual property. As a public possession, owned by the entire community, and yielding more or less of benefit to every member of society, it deserves the most liberal consideration. 'That poor may be fed and rendered comfortable and happy by simply turning to best account what has been heretofore neglected. All that is needed to bring this about is general knowledge among the people of what has been done by this comparatively new source of fish culture.

An exchange suggests that if you want to see a man struggling to do several things at once, just watch him try to put on his overcoat and rubbers, and yet keep his head bowed while the minister is pronouncing the benediction.

To CLEAN BLACK KIDS.—A good way to clean black kid gloves is to take a teaspoonful of salad oil, drop a few drops of ink in it, and rub it over the gloves with the tip of a feather, then let them dry in the sun.

AWFUL INCIDENT IN THE LINE OF A SWELL WHO LET FALL HIS UMBRELLA.—Nasty Dreadful Street. Boy (pretending to sympathize)—"Oh, sir, please let me pick it up for you, sir. Don't go to put yourself out of shape!"

STRAIGHT TO HIS FEELINGS.—Young Lady Visitor—"Oh, he's rather bashful. I know. (Encouragingly): Here, come here, Freddy darling; you know you can say what you like to me!" Freddy—"Well, then, I likes pudding!"

When an iron poker becomes soft by long usage, it can be hardened by heating to a redness and plunging several times in a pail of cold water.

Rub the buckwheat cakes griddle with half a turnip, to make the cakes come off nicely. This is better than fat.

Ink stains may be removed from books by wetting the spot with a solution of oxalic acid, 1 oz., water 1 pint.

Preserve eggs by a quick dipping in boiling water, and packing in fresh salt, small end down.

Why is "naming the day" like a naval battle? Because it's a marriage engagement.

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