# Agriculture.

COVERING MANURE.

It is remarkable that more attention is not given to the subject of covering manure from the weather, and especially from too much rain. Those who have given the matter particular attention have found that the manure so protected is worth double that which is left out in the open air. Two loads for one is a profit few farmers can afford to lose. There is no question which so vitally concerns the farmer as this one of manure. Much that he does has reference to it. Straw is not to be sold because it makes manure. Stock is fed through the winter for the express purpose of manure making .-Articles which will scarcely pay to send to market are nevertheless taken to the city in order that manure may be brought back as a return load; and yet the whole of the manure made remains all the season exposed to the sun, wind, and rain, until it is diminished in value to so great an extent as it

The trouble is probably that few really believe that exposed manure undergoes this loss. But the matter has been too thoroughly tested to admit of a doubt. We know first class farmers who did not themselves believe it, until by actual experiment they found out its truth.

In arranging farm buildings it pays well to look as much to the preservation of the manure as of the hay or grain, and those who have their buildings already finished without these manurial arragements will find that twenty five or fifty dollars spent on boards for a covered shed will rank among the best investments ever made. - Germantown Telegraph.

WARM WATER FOR PLANTS .- There are a great many who laughed at " such nonsense" when it was first proposed to water house plants with warm water, but it is now the rule, and those who do not use it are the exception. We notice a contributor to the " Department of Agriculture" dilates upon the benefit of its use, as follows: Last winter we had about one hundred plants in the house, and usually gave them warm water and very frequently water that was much too warm for the hand; some water at or very near the boiling point, has been poured into saucers of the pots and just on the sides. We have about forty persons in the family, from different parts of the country, and their testimony is that they never saw so fine geraniums, heliotropes, fuschsias verbenas, passionflowers, oleanders, &c. These plants show very marked improvement; others have flourished finely under the treatment."

USES OF CHARCOAL.—The Country Gentleman say: At this season of the year one desires to obtain some purifier, and charcoal is of the greatest value for the purpose. All kinds of utensils can be purified from disagreeable odors by rinsing them out with charcoal dust wet into a soft paste. Putrid water is immediately deprived of its bad smell by its use. When meat, flesh, ect are liable to become spoiled from long keeping, charcoal dust will keep them sweet; and if there is a slight taint to meat, it can be taken out by putting three or four pieces of it as large as an egg into the water in which it is boiled. This will Meffectually purify what seems too far gone to use

The first great requisite in the manufacture of butter is neatness. It is them. not only essential that the cow's foot be kept out of the milk pail, and that her teats and the hands of the milker be clean, but that all the implements should be scrupulously neat, and that the very air of the dairy house be pure. If any partially decomposed milk, cream, or cheese adheres to the sides of the vessels, or is hid away in some crack it will most assuredly impart the seeds of decay to the fresh article, and work like yeast in dough.

A condition powder, made of three parts salt and one of ashes, and given to horses at the rate of a handful twice a week, is highly commended by The Turf, Field and Farm. If a little sulphur is added to the dose once in a fortnight, there will be no harm, and many evils may be prevented. The prescription is almost as valuable for other domestic animals.

The largest orchard in the world is in California. It contains 426 acres, and over 75,000 fruit trees.

## Scientific.

SCIENTIFIC EXPEDITION.

The British Admiralty is about despatching the corvette Challenger, of 2306 tons, on a scientific expedition around the world. The expedition is to be under the immediate direction of the hydrographic department of the Admirality, and the ship, which is fitted out with a magnificent collection of scientific apparatus, will be under the command of Capt. G. S Nares. R. N. who has much experience in explorations. The scientific staff accompanying the expedition includes men em nent in many different branches of natural history and science, and the most liberal provisions have been made in all departments in order to secure a successful result to the undertaking. The Challenger will sail from Portsmouth for Gibraltar. The main purpose of the expedition will be to drag out from the depths of the the ocean hitherto concealed secrets of nature, and and its starting point may properly he considered Gibraltar. The first haul of the dredge, however will be made in the Bay of Biscay, if the weather should prove favorable. From Gibraltar the Challenger will proceed to circumnavigate the globe, making many diversions from the usual courses of sailing, in order to visit regions regarding which little is accurately known. Three years and a half is assigned as the time for the voyage. In addition to its deep sea work, the expedition will investigate all subjects of scientific interest which may sugge-t themselves inthe strange countries it proposes to visit.

STOPPING LEAKS AT SEA .- An ingenious method of stopping leaks in iron ships when at sea, has been patented by Mr. M'Cool, who effects his object by the means of what he calls " safety-plates." These plates are, as artisans, say, 'dished'-that is, they resemble a dish in shape; consequently when the hollow side is pressed against the the plates of a ship, the "safety-plate" fits close, and will keep water out when held firmly in place the with screws. By a clever contrivance, when once the leak is discovered, means can at once be taken for fitting on the new plate. A weighed line is dropped through the hole :this is laid hold of by lines drawn under the ship; the weight is taken off and replaced by a screw bolt: a plate, with indianrubber covering the inner edges, screwed to the inner end of the bolt; and thus the leak is completly covered on the inside and on the outside, and the water is kept out. That this means of safety can be made use of in the open sea, and under different circumstances, without the necessity of docking the ship, is not the least among its recommendations .- Sceince and Arts, Chambers' Journal.

A sucessful experiment was made last week on the Chesapake and Ohio Canal in driving a canal boat by current ably I shall be again assailed by them when water taken into a steam automatic pump at the bow and driver out through a pipe with great variety in the direc- have recovered without them. I asswer, No. tion of the keel. All the machinery But stand for truth and right. is of the very simple character and the speed attained on the trial trip was about the usual rate for freight boats.

EFFECT OF THE PERFUME OF FLOW-ERS .- The presence of the perfume of laveader in the air increases the power of absorption of heat sixty times, and arising, from a bed of flowers increases the temperature of the air around

A grocer being solicited to contribute to the building a church, promptly subscribed his name to the paper in the following eccentric manner: "John Jones (the only place in the town where you can get eleven pounds of sugar for a dollar), twenty-five cents."

Popular as well as scientific interest will be excited by the announcement that one of the rings of Saturn, with which the youngest student of astronomy is familiar, has disappeared. The missing ring is the inner one of the three hitherto observed; and the astronomer Struve has been watching for years its approach to the body of the planet upon which it has now closed like a belt of semi-transparent vapor, its centrifugal force being entirely overcome.

A brave man think no one his superior who does him an injury; for he has it then in his power to make himself superior to the other by forgiving it.

HALIFAX, N.S., DECEMBER 18, 1872.

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Southing gives the time of high water at that this un Parrsboro', Cornwallis, Horton, Hantsport, remunerative.

Windsor, Newport, and Truro. High water at Pictou and Cape Tormentine, 2 hours and 11 minutes later than at Halifax. 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 min-

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.

Joyful news for the Afflicted,

## GATES' Life of Man Bitters.

After so much has been said and so much produced in proof of the worth and excellence of Gates's medicines is there one, can there possibly be one, who will have the hardiness to stand up in the blaze f the oun light and say they are no good, when so many hundreds who have experienced the benefit arising from their use, would come forward and shame those who would oppese such a boon to mankind, and gladly and willingly raise their voices in extolling the virtues of these medicines, the Healing properties of which have been tested by so many of the sons and daughters of suffering humanity. I can only say tor my own part, may the day soon arrive when Gates's combined and valuable medicines shall have a broader and more extensive circulation over the unt. verse, and while with the trowel in one hand and the sword in the other he is working for the good of his suffering fellow beings. May there come forth those who will stand like giants against those who would overthrow and sap the very foundation of the Life of Man to carry out the principles of the wicked one himself when he sought to dethrone the Great Monarch of heaven and take possession of the e-ppire himself. Just so with those who would seek to bring into disrepute and destroy Gates's medicines. They have not had skill to compound themselves, and are envirus at those who

I make these remarks because I have been attacked by those who carry out just such principles as I have above referred to, and probthey see my statement of the blessings I have received from the use of these medicines in my family, or they will probably say they would all

But to those who have a sincere desire to ask are these medicines really a balm to heal the sick, to such I answer they are a balto, and in every way worthy of the name they bear, namely, Gates's Life of Man Bitters HENRY W. MARSHALL.

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> B BAKER. Victoria Road, Wilmot, April 16, 18t7. PRICE. Bitters \$1 per quart : Sgrup 50 cents per pint bottle; Liniment 20 cents per bottle and the

ointment 30 cents per box Address CALEB GATES & CO., Farmington. Wilmot, Annapolis Co.

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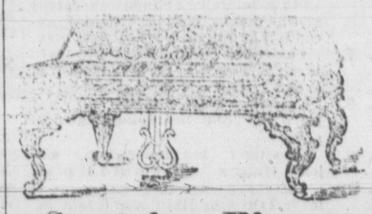
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