The Messenger Almanac.

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THE TIDES.—The column of the Moon' Southing gives the time of high water at Parrsboro, Cornwallis, Horton, Hantsport, Windsor, Newport, and Truro. High water at Pictou and Cape Tormen-

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tine, 2 hours and 11 minutes LATER than at Halifax. At Annapolis, St. John, N.B., and Portland Maine, 3 hours and 25 min-utes 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

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.

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Jan. 10.

AGRICULTURE.

WHY SEED WHEAT SHOULD BE NEW--In 1861 a German Agriculturist sted the germinating powers of varus seeds. He took the wheat of 1851 nd selected 100 grains, and found that 1860 they had lost all vitality, as not kernel germinated. At the same me he had sown 100 grains of the rops of 1854, 1855, 1857, 1858, 1859 nd 1860. Of these the results were s follows:

ut of the 100 grains of 1854 there grew . .

from this it will be seen that wheat fter it is five years old does not grow, and the newer it is when sown the nore plants it furnishes. But there is nother point that was proved by the French Agricultural Society in a series of trials, and that was that plants were weaker and did not tiller out so well. For instance, the seed grown in 1853 and sown in 1856 did not sprout at all. The seed, 100 in number, grown in 1854, only had fifty-one grow, and four days after coming up the leaves only measured an average of half an inch in height and the number of stalks was 269. Of the 100 seeds of the wheat grown in 1855, seventy-three germinated, but four days after appearing above ground the leaves were but an inch and two-tenths high, and the number of stalks and ears produced was 365. But of the seed grown in 1856 there were seventy-four out of the 100 germinated, and the length of the leaves four daysafter appearance above ground averaged one inch and six-tenths, while the number of stalks and ears from the seed was 404-showing plainly that new wheat was the best for seed, as more of it grew, and also what did grow seemed to have more vitality, as the plants were rougher, and the production was moths and grain.

FATTENING TURKEYS WITH CHAR-COAL .- "I have recently made an experiment on the alimentary properties of charcoal," says a writer for a Philadelphia paper, "and must say that the result surprised me, as I had always been rather skeptical. Four turkeys were confined in a pen and fed on meal, boiled potatoes and oats. Four others, of the same brood, were also, at the same time confined in another pen, and fed on the same articles, but with one pint of very fine pulverized charcoal mixed with their food-mixed meal and boiled potatoes. They had also a plentiful supply of broken charcoal in their pen. The eight were killed on the same day, and there was a difference of one and a half pounds each in favor of the fowls which had been supplied with the charcoal, they being much the fattest and the meat greatly superior in point of tenderness and flavor."

SHEEP .- A run in a stubble field week or two, until the fracture is reany dressing or other treatment .-American Agriculturist.

It is known, also, that in many instances these fowls have been bred in and The inference is very plausible that favorably.

have for several years been very ser- less suspense, and then the keeper viceable. She is the wife of an intelli- suddenly took a sitting posture, waving, gent and successful farmer, and she laughs at the mania for foreign fowls. huge forceps, in the jaws of which glis-She thinks she can show as large eggs and as many from a hen, as much trotted off a few steps, and stood for a profit with as little expenditure, as moment gazing at his keeper. He anybody. Her plan has been for shook his head as to see if everything hens, and to set only the largest eggs. his head against his friend, as if to ex-If she sees a fowl in any neighbor's press his thanks.-N. York paper.

yard that is very fine, she buys it, or Agents for the Christian Messenger. swaps for it; if she sees a very large egg elsewhere she secures it if possible; thus constantly bringing new strains of promising blood. Her fowls are large, healthy and thrifty. Being well cared for every way, they are very productive and serviceable. - St. Louis Valley

LEANING TREES .- Often in a fine orchard, we find one or more trees leaning over so far as to destroy the beauty of the whole orchard. It is also much more difficult to cultivate around a leaning tree. This may easily be remedied ..60 while the trees are young, by partially digging up and replanting the trees. The roots will usually be found smallest on the side from which the tree leans and therefore these roots should be loosened from the earth, the tree set in a perpendicular position, and carefully fastened by stakes or guys, and the earth replaced around the roots. It would be well to add some rich compost to promote their growth. If, as is very probable, the top of the tree has become one-sided. it should be pruned so as to restore the balance. In this way we have " righted up " pear trees six inches through the stem; but the best way is to look after the young trees and not permit them to depart from the way of uprightness .- Journ, of Horticulture.

SCIENCE.

SOME FACTS ABOUT ALCOHOL.—It is poor rule that will not work both ways, says Hans; "if twice six is twelve, then twice twelve ought to be six." And that is about the way poople put it who love liquor. If they are wet they take some; and if dry, they ask for some to moisten their clay. It wakeful, they take some for a nightcap and if fatigued and languid, they drink to wake themselves up. If the day is hot, take a stimulant to drive out the caloric; and if it is cold, they warm up with a hot whisky punch.

The theory that alcohol is a sustainer of vitality has been proved to be false by all expeditions that have explored the Arctic regions. The latest expedition, that of Capt. Nares, from England, showed that teetotalers, though subjected to the same labors and hardships as their companions, in every instance escaped scurvy and remained in excellent health. A man named Gore, a Good Templar, succumbed to temptation while on a sledge journey, and took grog. After this he lost his appetite, ceased to have refreshing sleep, and was eventually attacked with scurvy. Ayles and Aldrich, the only teetotalers in the sledge party, were the only ones who escaped the scurvy. The testimony of both ship's companies doctors and officers included, was unanimous against serving out stimulants during the day, as they emphatically stated that no work could be done upon

HIPPOPOTAMUS DENTISTRY .- The when the ground is bare, or the snow baby hippopotamus, "Baba," has beis only three or four inches deep, will come the chief pet of the aquarium, be of advantage to the sheep. Any much to the disgust of the trained seal be of advantage to the sheep. Any much to the disgust of the trained seal of physicians generally, and through their weakly ones should be turned out by and learned otter. Baba is docile, and favorable expression, and its acknow themselves, in a place where they can when not following his keeper lies be looked after. A constant watch quietly in a sunny spot near one of the should be kept ever the flock, lest one | windows on the Thirty-fifth-street side, should fall into a turrow or drain and where, with lazy content. he submits be unable to recover itself. Ewes may to having his ears scratched by the chilthus be lost if neglected. Never fail dren. Bata has his troubles, however, to count the sheep when they go out and for the past day or two had eviand come in. Never compel them to dently been suffering from some derjump over bars, but remove the lowest angement. "Doc," his keeper, finally one, lest legs be broken. It a sheep's decided that it was toothache. An exleg is accidentally broken, bandage it amination showed, in fact, that one of with splints, and keep it by itself for a his milk-teeth was badly decayed. "Doc" said it must come out, and speedpaired, which is easily done, without ily improvised forceps out of gas-nippers. to us, do we say this, but because we open "Doc" laid hold of the tooth. Then the forceps slipped, and the keeper POULTRY BREEDING .- It is well sat down with a bump, amid the surknown that the barn-yard fowls on pressed laughter and ironical applause many farms are very unserviceable. of the spectators, while Baba looked It is known, too, that this is not for lazily out of his half-closed eye as if the want of good fare, shelter, etc. to say, "What is all this fuss about?" When with grim determination "Doc" approached again, Baba uttered a rather in for many years without a single dissatisfied grunt, but opening his mouth. A partner in my business, and hereafter fowl from any other flock being added. This time the tongs held, and a strong pull proved too much for Baba's equanimclose breeding has affected them un- ity. He got to his legs with a 600 pound | disease. jump. "Doc" held on with all his We know a woman whose hens might. There was a moment of breathhowever, with a triumphant air the tened the large white molar. Baba many years to breed from her best | was all right, and then came and rubbed

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