

of pipe, were each used. Hence, the village which burns a thousand cords of wood in fire-places, expends nine-tenths of this amount, or nine hundred cords, in heating the air above the chimney-tops. Through the chimney of a large *fire-place*, there is a current of hot air, a foot square, and moving four feet a second. That is, four cubic feet of hot air are sent out into the wide atmosphere every second, which is equal to eighty-six thousand cubic feet in twenty-four hours, the amount which every farmer, who uses an open fire-place, contributes to the winds.

FEEDING DOMESTIC ANIMALS.—If one cow daily treads three pounds of hay under foot in the mud, she will waste about one hundred pounds per month; or a herd of twenty cows would waste a ton per month. At this rate, how many times, every ten years, would the quantity wasted pay the expense of making feeding boxes and racks?

WATERING CATTLE.—Many farmers suffer a loss by not providing good and convenient water for their cattle. An animal that is compelled to go half a mile over a slippery road, and chased perhaps by dogs, cannot gain in flesh by the operation. If a cow has to travel twice a day half a mile to water, and return, she travels two miles a day;—or ten cows perform twenty miles of travelling a day, and two thousand miles each winter.

GATES.—Every field on the farm should be entered by a good self-shutting and self-fastening gate. Farmers, who are too busy in summer to make them, or get them made, should see to it in the winter. How long does it require to take down and put up a set of bars? At least two minutes; which if repeated three times a day for a year, amounts to thirty hours or three days of working time—which would yearly pay for a good gate. Or, examine it in another point of view,—three times a day, is nine hundred times a year; now, is there any man between Halifax and California, who would take down and replace a set of bars nine hundred times in succession, in payment for a farm gate? Hardly—yet this is the price yearly paid by those who use bars that are constantly passed, and the gate is not obtained by it. Again—how much better is a well-hung gate, than one half-hung?—or one with a pin crowded into an auger-hole? Try it by dragging a badly hung gate over the ground, one hundred times in constant succession, securing it each time with a pin, and see if you do not think this labour would pay for good hinges and a latch.

BUSINESS ENGAGEMENTS are of far more importance than people generally suppose. By men who are thrifty and successful in making money, they are always promptly attended; and when you know a man to be in a constant state of excitement, and always "hard pushed" for the "dollars needful," you may be sure that he seldom keeps an engagement. Promptness in keeping them, and not competition, is the life of business. Often have we known a poor honest man establish his credit merely by going to dine with his friend at the *appointed hour*; and we have known more than one business man to lose his credit by thinking more of his cigar than the keeping of his engagement.

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