

ing to see how little fuel it consumed. It cost \$215.

I have now to confess to a small extravagance. I contracted with a carpenter to build an ornamental tower, fifty-five feet high, twenty feet across at the base, and fifteen feet at the top, sheeted and shingled, with a series of small windows in spiral and a narrow stairway leading to a balcony that surrounded the tower on a level with the top of the tank. This tower cost \$425; but it was not all extravagance, because a third of the expense would have been incurred in protecting the engine and making the tank frost-proof.

To distribute the water, I had three lines of four-inch pipe leading from the tank's out-flow pipe. One of these went 250 feet to the house, with one-inch branches for the gardens and lawn; another led east 375 feet, past the proposed sites of the cottage, the farm-house, the dairy, and other buildings in that direction; while the third, about 400 feet long, led to the horse barn and the other projected buildings. From near the end of this west pipe a $1\frac{1}{2}$ -inch pipe was carried due north through the centre of the five-acre lot set apart for the hennerly, and into the fields beyond. This pipe was about 700 feet long. Altogether I used 1100 feet of four-inch, and about 2200 feet of smaller pipe, at a total cost of \$803. All water pipes were placed $4\frac{1}{2}$ feet in the ground to be out of the reach of frost,