THE OTTAWA NATURALIST.

This estimate does not include the salaries of attendant teachers. Trained teachers are more valuable than agriculturists without knowledge of pedagogical methods. Teachers not versed in agriculture may be supplemented by a good gardener ; if, however, the teachers do understand gardening, a laborer may take the gardener's place. This man occupies an important position in the work. He supplies the place of a janitor and assists the children in any work that is too heavy for them, such as breaking up earth with a pick-axe or managing a fifty-foot hose. During the fall, when the children are at school most of the day, he acts as a watchman, sending away truants, and during this time when weeds grow rapidly and the children's hours of work are few, he also assists in keeping the garden clean. The supervisor of the garden must be a woman that is capable of supervising and directing the work of preparing the ground, laying out plots, and erecting buildings. Some knowledge of surveying, plotting and draughting is also indispensable to her, as she will necessarily have to plan the laying out of the garden and direct both children and workmen. Upon the supervisor falls the duty of engaging workers and the responsibility of overseeing each step. Estimates and purchases of seeds and plants and the whole government of the practical gardening is to be planned by her. In addition to this, she usually gives daily nature-study talks, which must be adapted to the varying ages of the children. As harvesting progresses accurate records of produce per child, attendance of said child, effect of work upon his physical, mental and moral being must be registered. All of these steps are worth while because gardening is yet in its infancy and statistics must be obtained to convince those unwilling to embrace the idea, of its merit. Such individual records must be kept for two hundred and fifty children, to be afterwards added, balanced and the average found, more than filling the teacher's time during the hours in which the children are at school. Many interruptions to this work occur in the form of visiting classes to which the supervisor explains the work of the garden.

In Porto Rico, where school gardens are maintained by the United States government, and are connected with every public school, teachers are regularly trained for the work in the course of

30