

will constitute a most important aid to Zoological and Entomological work. In them aquaria and terraria will be set up and insect breeding carried on. In the winter plants infested with various insects and fungus diseases will be grown for the convenience of the students, and to enable demonstrations to be made in fumigation, preparation of spraying mixtures, and the application of sprays. During the summer months investigations in the life histories of various insect pests will be carried on, and their parasites and insect enemies studied.

The smaller laboratory will be chiefly used for advanced research work, and in it theoretical and practical problems affecting the farmer and fruit grower will be dealt with. The value and importance of this insectary for Entomological and greenhouse work can hardly be overestimated.

Lecture Work.

A great part of the time of the department is employed in lecture work. During the College year the following courses are given:

1. Elementary Zoology.—First year, winter term, two periods of lectures and one of laboratory work each week, covering the chief divisions of the animal kingdom and their principal characteristics, special attention being given to the species common in this country and those of economic importance as regards agriculture and horticulture.

2. Economic Entomology.—Second year, fall term, two periods of lectures and one of laboratory work each week. This course has afforded instruction in the external anatomy and structure of insects, their metamorphoses and life-histories, and an outline of their classification. Special attention has been given to those affecting farm, garden

and orchard crops, and those of a beneficial character; and to insecticides and other methods of dealing with noxious species. From time to time the lectures have been illustrated with lantern pictures, enabling the whole of a large class of students to see details of form structure, ornamentation, etc., which could not otherwise be conveniently brought before them. During several weeks at the beginning of term an afternoon was spent in field excursions for collecting specimens and making observations, but when the weather became too inclement for out-of-door work of this kind the time was devoted to laboratory work.

3. Systematic and Economic Entomology.—Third year, both winter and fall terms, two periods of lectures and one afternoon of laboratory work each week. This may be regarded as the most important course in Entomology during a student's College career. A systematic series of lectures is begun in September and carried through both terms. The division of the class of insects into orders is first treated of and their characteristics described. Each order is then dealt with in turn, and the general classification into superfamilies, families and tribes is carefully taught; the more important genera and species are taken up in detail and much attention is paid to the life-histories of common forms and those of economic importance. The lectures are illustrated with diagrams and specimens, and occasionally by a series of lantern pictures of the more important insects belonging to the order under consideration. It is expected that by the end of the College year the students in this class will have acquired a sufficient knowledge of general entomology to be able to know at sight to what order and family any common insect belongs,