

NOTES FROM THE CORNELL INSECTARY.

I.—SOME RESULTS OF A TRAP LANTERN EXPERIMENT.

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May 1, 1889, the Entomological Department of the Cornell Agricultural Experiment Station set six trap lanterns, at considerable distances apart, on the University farm for the purpose of determining their value as an insecticide. Each trap consisted simply of a common lantern set in a pan of water whose surface had a thin film of kerosene upon it to facilitate the destruction of the insects caught. The lanterns were kept burning every night until Oct. 15, 1889, or until no more insects were attracted. The captured insects were taken from the pans every morning and placed in alcohol, those from each lantern being kept separate. So many outside influences, as other lights, the smallness of the area covered, etc., entered into the case, that practically no results were obtained from the different locations of the lanterns in the number of specimens caught by each lantern in any of the species thus far studied. Therefore, in the tables which follow, the total catch for each day from all the lanterns is placed under that date.

An immense amount of material was taken, representing nearly every order of insects; the moths, however, included a majority of the specimens. But comparatively little of the material has yet been studied. Several species of Cut Worm Moths, the Apple-tree Tent Caterpillar Moth, and all the species of the May Beetles taken in the lanterns have been determined by the writer. As all of these are of economic importance, the following tables showing the number of specimens of each species taken each day will be of economic interest as showing the period of flight, when most numerous, the relative commonness of the different species, and many other questions of importance, as we shall see.

TABLE I.—*Clisiocampa americana* taken at Trap Lanterns in 1889:—

	DATE.	MALES.	FEMALES.
June	17.....	1	
"	18.....	2	
"	20.....	4	
"	21.....	3	
"	22.....	6	
"	25.....	11	4
"	26.....	35	
"	27.....	85	8
"	28.....	46	5
"	29.....	100	33
"	30.....	61	25