Entomological Department.

A Humming-Bird Moth.

At this time of year, when the lilaes and other fragrant shrubs are in full bloom, one often sees at dusk hovering over the flowers like a humming-bird and extracting nectar with their long proboscis; many a lovely species of moth; later on in the season they frequent petunias, larkspur, the evening primtose, and many other flowers. Most of these moths are to active and switt in their movements that it is almost impossible to eatch them without a net, and consequently very few except entomologists are familiar with them. They belong to various families of the order, but the largest and most bird-like are members of the flawk-Moth family (Splingida). In their usually ornamented with oblique bars or stripes of taken for a horn, or even a sting! When disturbed the fore-wings. A transparent eye-like spot near the with no difficulty or hesitation in the taking or

the caterpillar puts up his head in a threatening attitude, and pre-interior sppearance som what like that of na 11 a ptem ophing here of the secutific rame.

We have been led into

of the family.

these remarks by the receipt of a very pickly moth from Mr. John A. Gemmill of Pakenham, Ont. He writer that he has "never met with it in any other place except on his neighbor, Mr. Richey's blace, 'He adds "I have plenty of lillies within 100 yards, but taver saw one of them on mine." The specimen is a Hawk-Moth or Sphinx, know to entomologists as the Dellephila Chamernerii (Harris); it has no com-

mon English name. Its

expanded wings measure

nearly three inches from tip

to tip, and the body about

an inch and a quarter. Its general color is olive-brown, with white markings about the head and thoray; the fore-wings have a conspictions buti-colored, slightly wavy, stripe extending from base to tap; the hind-wings are chiefly rosecolored, with a dark border, and a white spot near the base. The larva is very rarely seen—we have never met with is ourselves: Harris states that it is "brony green above, and red beneath, with nine round cream-colored spots, encircled with black on each side, and a red caudal horn;" and that it feeds on the great wellow-nerb (Epilobium augustifolium). It is said also to feed upon purslane.

We have a ver observed its restriction to a particthat locality, as remarked by one correspondent. but have found the moth almost every year hovering about the blossoms of the lilae, and have captured specimens in various parts of the province- from Coboard in the east, to Saulte ist. Marie in the northwest.

difficulty in k ling the specimen for transmission to us He ways that he tred in succession coal oil, am- liction that they carry a jewel in their head is no mona, concentrated tartare and and olive oil, longer believed, Shakespeare to the contrary notwithout much success. We generally employ chlor- withstanding; yet the latter is more true than the oform for killing moths and find it instantaneously lowner-indeed it is half true. They carry two;

taken to exclude the specimen from the air for a little while, else it would probably revive. Smaller specimens may be readily killed by dropping them into a bottle or box containing a lump of cyanide of potassium. As these substances are extremely poisonous, the collector must exercise care in their employment, and be very particular not toleave his boxes or bottles within reach of children or careless adults.

We have another species of moth in Canada very similar to the above mentioned, but considerably larger, the Dell phila Uneatt; it also is found about lilacs and other flowers, though seldom in such numbers as its congener.

The Luna Emperor Moth.

brought to our office by the Rev. Mr. Ross As it is larval state they are caterpillars of a green color, not very common, flying only at night, we present our readers with a life-like illustration of this "Queen offered him a squash bug, which he took and swaldifferent lines on the sides, and furnished with a stiff of the Night." Its wings are of a delicate green lowed, winking in a very satisfied manner. Twenty projecting tail an appendage that is sometimes mis- color, with a purple-brown margin on the front of other fine bugs followed the first in a few moments,

rior wings, prolonged into remarkable crescent-shaped been, as the dinner bell rang as the 101st disappeared, tails, as shown in the illustration. The body of the and by the close of the meal he had retired to his Moth is covered with snow-white down. The enter- hole, nor did he appear for four days in his sunning pillar feeds upon the hickory, walnut, beech and

Toads in the Garden.

Toads often come to the surface in the newspapers, and pretty soon we may expect them to come again to the surface of the ground in search of the summer insects upon which they exclusively feed. We know gardeners, who certainly know what they are about, who buyup all the toads they can get, and they amply repay their cost in the destruction of insects and larvæ. Many persons have a loathing of this really interesting, but certainly not handsome, bufo, the result of superstition or want of education. It is time we learned that they cannot bite any more Our correspondent uppears to have found extreme than a garter snake, and if they could, that bite would be equally as harmless. We suppose the

innocent of creatures that ever ate indiscriminately anything that had life that they could swallow, that came within reach. They are worth more per head to the horticulturist than chickens, even allowing that chickens did not scratch, and to put our readers thoroughly in good humor with these insect devourers, we reproduce the following story by Dr. Harris :-- He supposed the odor of the squash bug (Corcus tristis) would protect it from the toad; and to test the matter he offered one to a grave-looking bufo under a cabbage. He seized it eagerly, but spit it out instantly, reared up on his hind legs and put his front feet on top of his head for an instant as if in pain, and then disappeared across the garden in a series of the greatest leaps a toad ever made. Perhaps the bug bit the biter. Not Appreisant of this most lovely insect was recently satisfied with this, Dr. Harris hunted up another toad, which lived under the piazza, and always sunned himself in one place in the grass, and

> swallowing, though from the wriggling and coatortions, it appeared their ecrnas did not set well withia. The stock of bugs then being exhausted, a colony 6 smooth black larve was and in a white birch, each mout three-quarters of an ich long, and over one huncred of these were fed to the waiting toad. Touching one of them with the en . of a straw it would coil around it, and then when shaken before him he would seize and swallow it, at first eagerly, but with diminished zest as the number increased, until it became necessary to rub the worm against his lips for some time before he could decide about it. He would then take it and sit with his lips ajar for a short time, gathering strength and resc-Intion, and then swallow by desperate effort. There

middle of each wing, and the inner angle fathe poster is no telling what the number or result would have place. It is to be hoped that he slept well but there might have been nightmares. - Western Rural,

Destroying Curculios.

A correspondent of the Germantown Telegraph says. "I have seen various methods for keeping these insects off plum trees, but none so simple, nor yet so effectual as the following: Soak corn cobs in sweetened water until thoroughly saturated, then suspend them to the limbs of the trees a little while after blossoming, being sure to burn the cobs after the fruit ripens, as they will be found full of young insects. A good plan is to change the cobs every few weeks. My theory is this: that the insects deposit their eggs in the cobs in preference to doing so in the young plums. The first season I tried it upon one or two only, and in the summer wasrewarded by a good crop of as fine plums as ever ripened, while those on the other trees fell off when about half grown. Next spring found sweetened corn cobs effective, a few drops poured upon the body will their eyes, at least, are as bright as any jewels that daugling from the limbs of all my plum trees, and kill the largest moth in a moment, but care must be ever sparkled in a diadem. They are the most the summer found them full of delicious fruit.