

NOTES ON SOME SAWFLY LARVÆ, ESPECIALLY THE
XYELIDÆ.

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MACROPHYA FLAVICOXÆ, Nort.

Head light brown, almost orange on the vertex, a little dot at occiput, eye in a black spot; width, 1.8 mm. Body greenish white, not shining, a dusky black dorsal stripe and a very distinct velvet-black lateral one, broken into two square patches situated on the third and fifth annulets, connected by smoky shadings. The spots are broken up posteriorly and absent on joint 13. Dorsal band greenish black. Segments neatly annulate, feet on joints 6-12 and 13; anal plates immaculate. Towards the end of the stage the segments are faintly orange banded in the middle (on second and third annulets), the anal flap broadly orange.

Ultimate stage.—Head brownish with blackish apical shade, eye black. Body shining greenish waxen, no marks except the orange bands which persist rather distinctly, covering four annulets, apparently first, second, third and seventh, the segments 7-annulate, marked a little with tar-brown in the folds. Single brooded; found on the red-berried elder (*Sambucus racemosa*) at Jefferson Highlands, N. H., towards the end of July, resting curled on the back of the leaf. The larvæ pass the winter in cells in the earth. One ♂ specimen was bred, which was submitted to Mr. MacGillivray, who labelled it with doubt, "n. sp., near *flavicoxæ*." I prefer not to consider it distinct for the present. The specimen is in the U. S. National Museum, marked "6 L."

MACROPHYA EXTERNA, Say.

Stage III. (?)—Head pale testaceous, a little darker on the vertex, a large black spot covering the eye; width, .9 mm. Body tapering posteriorly, finely annulate, translucent white; no marks, the dorsum appearing green from the food. Thoracic feet colourless; abdominal ones on joints 6-12 and 13.

Stage IV.—Head whitish, eye black, a dark shaded spot on the vertex; width, 1.2 mm. Thorax enlarged; body white, finely 7-annulate, the dorsum green from food.

Stage V.—Head whitish, eye in a large black spot, a large smoky black patch on vertex; width, 1.6 mm. Body rather opaque white, neatly 7-annulate, the food green; no marks. The larva curls with the tail raised over the back. Sits on the under side of the leaf.