

joint eleven, though it occurs conspicuously on the preceding joints. One specimen was observed that had it on joint eleven, but it occurred on one side only.

When ready to pupate, the larva leaves the burrow and changes in the ground. The pupa is of normal appearance, and the period is of usual duration—about a month.

*Stenocelis* was placed in *Hydroecia* by Dr. Dyar, his type being imperfect in the characteristic tufting that is a feature in differentiating these moths. It is a conventional *Papaipema*, however, and was so referred by Hampson, perfect material having the typical tufting present, while the genitalia conform to the unusual pattern of this group. What is really a better characteristic exists in the larval appearance which accords with the unique pattern disclosed in *Papaipema*—at least, as occurs with thirty of the species whose larvæ are known. One very notable departure happens with *frigida*, whose larva approximates *Hydroecia* characteristics, and is evidently a relic of the stem species, whence both these groups sprung.

The genitalia have not been discussed. These male characters show little to distinguish them from the general type. The broad, heavy side-piece, or clasp is tipped with an irregularly formed cucullus, shaped somewhat like a foot with an over-developed heel, and having the toe, which is the anal angle of the corona, pointing ventrally. This area is set with spine-like setæ that point anteriorly. The harpe is a stout, sharp-pointed hook, curved like a cow's horn. It is shorter than with most species, and is toothed slightly on the outer edge. These teeth, too, are of less prominence. The clavus is marked only by a slight prominence, which is covered with fine setæ. The uncus is the usual finger-like appendage, widened a little near the point.

From our studies of southern flora, now that the food-plant is known, we might predict *stenocelis* may find its principal metropolis in the Dismal Swamp region of Virginia, where *Woodwardia* reaches a prolific development.