

skin appears as dark brown. The tubercles are black and shiny, ii with a polished base as in last stage. The dorsal stripe is now inconspicuous, in fact it is only the dark brown skin of the body showing against the black tubercles which gives the appearance of a stripe. Spiracles and feet same as in Stage III.

Soon after Oct. 5 the larvæ were placed out of doors for the winter. They were put in large glass jars which contained dried leaves, among which the larvæ crawled. A cheese-cloth covering was tied to the top of the jar, and this was laid on one side, in the driest place, among a clump of cedars.

On April 27, 1904, the jar was brought into the office, and it was found that 15 larvæ were alive. At this date the snow had all disappeared in open places, and none was left where the larvæ had hibernated. After being brought into the office they were very quiet, and would not eat anything until the 29th, when some fresh food was sprinkled with water, and by the morning of the 30th the larvæ were in splendid condition, and quite a lot of frass was in the jar. Length after coming out of hibernation 9 mm.

On May 3 one larva moulted, and by the 6th nine had moulted.

*Stage V.*—Length 12.5 mm. Head 1.3 mm. wide, black, shiny, slightly bilobed; epistoma, median suture and margins of clypeus pale. Dark hairy larvæ, darker on dorsum. Tubercles all black, shiny, small, ii large, with a polished base. Dorsal stripe inconspicuous as in last stage. Skin just between the lateral tubercles has a pinkish tinge. Bristles black, finely barbed. Spiracles black. Thoracic feet black, shiny; prolegs, upper half black, lower half reddish, almost salmon colour.

On May 10th ten specimens moulted.

*Stage VI.*—Length 16 mm. Head 1.6 to 1.8 mm. wide; same as in Stage V. Skin of body now blacker. In this stage three specimens had a flesh-coloured dorsal stripe, distinct on all segments; the others, with the exception of two, which had no markings, had the dorsal stripe also, but only on the thoracic segments. Tubercles all black and shining as before; iv and lower tubercles bear mostly rusty bristles. All the other bristles on the body are black. Spiracles black. Thoracic feet mostly brown, blacker towards base, shiny; prolegs, upper half black, lower half reddish. Later in the stage the skin of body below the spiracles changes to brownish, with a purplish tinge.