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DESCRIPTION OF PREPARATORY STAGES OF PHYCIODES NYCTEIS.

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EGG—Ovoidal, narrowing above, the base rounded, summit depressed; the lower third smooth; nearly a second third marked by irregularly hexagonal, very shallow cells; and the remainder by vertical ribs, slightly raised, terminating at the rim of summit; color whitish-green. Duration of this stage 9 to 13 days.

YOUNG LARVA—Length .06 inch; cylindrical, each segment well rounded; color green, translucent; over the surface many hairs; head ob-ovoid, bilobed, the vertices rounded; color dark brown. Duration of this stage in June 10 days, in July 8.

AFTER FIRST MOULT—Length .18 to .20 inch; color smoky-brown, semi-translucent, the under side greenish; armed with seven rows, one dorsal and three lateral on either side, of stout, fleshy, tapering black spines, each surrounded by many short black bristling hairs; over feet a row of minute similar spines, and on segment 2 a dorsal collar of small spines; head black, ob-ovoid, high, the vertices rounded, covered more or less with black hairs. To next moult, in June 3 days, in case of the larvæ which proceeded to maturity; in July, 3 to 4 days.

AFTER SECOND MOULT—Length .24 inch; color black-brown, the spines longer in proportion, with broad bases, all shining black; under side greenish-brown; head as at last stage. To next moult, in June 4 to 5 days; in July 4.

AFTER THIRD MOULT—Length .34 inch; color black-brown; under side smoky-brown; at base there sometimes appears a broken yellow stripe or narrow band, dotted with whitish, but most often the yellow is wanting and the color of the ground is dull green; behind the dorsal row of spines are a few blue dots, arranged in two cross lines; spines long,