



FIG. 4.—Oxygen consumption rate-temperature curves calculated as representative of specimens of mean weight of the respective samples. Curves are identified as to Study Period as follows: I, ———; II, - - - - ; III, ..... .

In collateral studies of the relationship between consistency of  $Q_{10}$  of oxygen consumption and stability of thermal history I have collected a large body of data showing that vagrant or oscillating acclimation temperature can, under certain conditions, lead to apparent nullification of the effect of temperature on metabolic rate. A few of these data appear in a later section of this paper. It