

obj. 4=15; Oc. V, obj. 7=72. Another individual, obtained since, with an abundance of eggs oozing from the oviduct, pure and ripe, gave the almost unvarying measurement of the egg as: Oc. V, obj. 7=75. This when calculated is $75 \times 1.45 \mu = 108.75 \mu =$ slightly over .1 mm. = slightly over $\frac{1}{250}$ inch = fully twice the diameter of the egg of the Atlantic oyster, and perhaps identical in size with the egg of the English oyster.

In making measurements it is important to use only ripe eggs, as in this case, and to select those that are spherical or nearly so and not flattened by the weight of the coverslip, as well as to extend the measurements to many individuals in order to exclude all possibility of a slip. The nucleus is between one half and two thirds the diameter of the egg.

Upon turning particularly to spermatozoa I found them in every individual—even between the eggs of those containing eggs in the gonad. The younger individuals had no ova, but all sperms. Some of the older ones had a few big, soft, opaque, irregular, elliptical, oval or nearly spherical eggs, scattered among irregular masses of less than half their size, which are balls of spermatids on the way to development into spermatozoa. One of these measured $46 \mu \times 40 \mu$, and each one is kept in a dancing or rolling movement, somewhat like that of many infusoria, by the flapping of the tails of the ripening sperms on the surface. Between these masses are millions of mature, free, dancing spermatozoa, of which the tails are rarely visible until one searches for them with a high power. I have not yet made extensive measurements of the sperm on account of the difficulty of measuring such exceedingly small objects with certainty, but I believe the sperm of the British Columbia oyster is smaller than that of the Prince Edward Island oyster, which may have some relation to the particular mode of fertilization, such as being introduced by the respiratory current. In some parts of the gonad ova may be plentiful, while at other parts there are only sperm-balls.