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A summary and information on availability appear on page 1123.



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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

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ECHOES

EXPERIMENTAL STUDIES OF NATURAL PURIFICATION IN POLLUTED WATERS

ON THE INFLUENCE OF THE PLANKTON ON THE BIOCHEMICAL OXIDATION OF ORGANIC MATTER

By C. T. BUTTERFIELD, *Bacteriologist*, W. C. PURDY, *Plankton Expert*, and E. J. THERIAULT, *Chemist*, *United States Public Health Service*.

The abstraction of dissolved oxygen from polluted water during the natural purification process is a well-known phenomenon. It is also well-known that the amount of dissolved oxygen used up is definitely related to the amount of pollution present. While these facts in regard to the natural purification of polluted water are well established, the mechanism by which the oxidation is accomplished can only be surmised. For instance, if a portion of polluted water is examined, many bacteria and plankton are found. If all of these organisms are killed or removed from the water, oxidation ceases. The interrelation of these biological factors and the part that each plays in the process of natural purification constitute the subject of this study.

Extensive studies are described in the literature on the rate and extent of biochemical oxidation of polluted water. In general, these studies have been confined to a determination of the amounts of dissolved oxygen absorbed after various periods of incubation at different temperatures without reference to the biological factors con-

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C. T. Butterfield, W. C. Purdy, and E. J. Theriault advanced the theory that the chief function of certain plankton in the biochemical oxidation process was to reduce bacteria below the saturation point, thus providing conditions suitable for bacterial multiplication, which resulted in more complete oxidation. In a series of seven articles they reported experimental studies of the interaction of biological factors in the natural purification of polluted waters.

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Illustrative material on the inside of the front cover of each issue is indexed by month under the heading FRONTISPIECES. It is recommended that the covers be included in a bound volume.

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EDITOR'S CORRECTION

In the article entitled "Inapparent Infection: Relation of Latent and Dormant Infections to Microbial Persistence," by Walsh McDermott, M.D., *Public Health Reports*, June 1959, the seven paragraphs beginning with "It might well be questioned . . ." on page 493, middle of the first column, and ending with ". . . with dysentery bacilli" on page 494, bottom of first column, should be inserted on page 489, second column, preceding the subhead "The Antimicrobial Drug."