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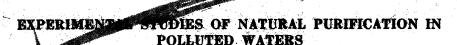
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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE ARTHUR S. FLEMMING, Secretary

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THE INFLUENCE OF THE PLANE ON ON THE BIOCHEMICAL OXIDATION OF OXIDATION OF OXIDATION

By C. H. BUTTERFIELD, Bacteriolegy, W. C. Purdy, Planking Supert, and E. J. THERIAULT, Chemist United States Bublic Health Source.

The perfection of disclived oxygen from polluted water during the natural perification process is a well-mown phenomenon. It is also well mown that the amount of dissolved oxygen used up is definitely related to the amount of pollution present. While these acts in regard to the natural purification of polluted water are well established, the mechanism by which the oxidation is accomplished can only be surn sed. For instance, if a portion of polluted water is examined, many bacteria and plankton are found in all of these organisms are alled or removed from the water oxidation ceases. The interreaction of these biological factors at the part that each plays in the process of natural purification distillate the subject of this study.

Extensive studies we described in the literature on the rate and extent of biochemical midation of pointed water. In general, the studies have been confined to a determination of the amounts of disolved oxygen absorbed an ervarious periods of incubation at different temperatures without reference to the biological factors don-

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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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One asterisk before the page number indicates an original, signed article. The sign of two asterisks, used only in the author index, indicates a monograph. Entries without any symbol may refer to summaries or briefs of papers presented at conferences, narrative conference reports, statements or reports of committees, short reports without authors, or similar items.

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."