INFLUENCE OF PLANE OF NUTRITION ON SUSCEPTIBILITY TO INJURY FROM TOXIC CONCENTRATIONS.¹

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In discussing this subject, it is assumed that the plane of nutrition means the resultant effect of the different conditions under which a plant grows. These conditions are temperature, moisture, air, light and food. The maintenance of all these conditions at an optimum is very difficult, and every observing grower of plants knows that if any one of them departs far from the optimum, the plant not only is affected in its growth, but is often susceptible to attacks of insects or diseases which would scarcely trouble it if it were in vigorous health.

Many of the studies of toxic effects of inorganic and organic compounds have been made under conditions far from the optimum for plant-growth, particularly when such studies have been made with water-cultures. No farm or garden crop can be considered in

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