



The Physiology of Plants Under Stress, Abiotic Factors

Erik T. Nilsen, David M. Orcutt

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The first comprehensive treatment of the physiology of plants under stress.

Physiology of Plants Under Stress: Environmental Factors, Volume 1 is a valuable resource for plant physiologists, horticulturists, crop scientists, plant breeders, agronomists, and plant molecular biologists. It provides the most detailed coverage, to date, of the impact of a wide range of environmental variables upon plant structure, development, and growth. Comprehensive in scope, it explores:

- * Plant stress physiology fundamentals, including growth regulation, membranes, phytohormones, carbon balance, and the use of stable isotopes in stress studies.
- * Relevant physical, chemical, and biological aspects of all forms of environmental stress and their effects upon plant metabolism.
- * Multiple levels of adaptation, including behavioral, morphological, anatomical, physiological, and biochemical responses.
- * Plant responses to specific environmental stresses such as drought and flooding, light intensity, high heat, chilling and freezing, and other.
- * recent advances in microbiology and genetic manipulation in the regulation of metabolic influences.
- * And much more.

each chapter concludes with study/review outlines and self-study review questions, making this an ideal text for graduate level courses in plant physiology, horticulture, agronomy, and crop science.

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