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Vernation in Some Iowa Woody Plants

H. D. Harrington
State University of Iowa

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chromosome count to establish the time and place of meiosis, but the fact that each spore, though receiving but one nucleus, carries the full complement of sex factors, suggests that disjunction of sex factors does not occur in the basidium. Disjunction, and possibly numerical reduction may be delayed until nuclear division in the spore.

DEPARTMENT OF BOTANY,
IOWA STATE COLLEGE,
AMES, IOWA.

THE LEAF AS A PROPAGATIVE ORGAN

JOHN A. YARBROUGH

That the leaves of a number of plants may be utilized as a means of propagation is appreciated in both the practical and theoretical field. The precise manner of such vegetative propagation has been investigated by the author in two cases, *Bryophyllum* and *Tolmiea*. These are representatives of a type which is to be contrasted with the *Begonia* type. A restatement of the morphological principles involved in well known cases of propagation by leaves has been attempted.

DEPARTMENT OF BOTANY,
STATE UNIVERSITY OF IOWA,
IOWA CITY, IOWA.

VERNATION IN SOME IOWA WOODY PLANTS

H. D. HARRINGTON

A list of three or four hundred woody plants of Iowa with the vernation of each. A general discussion of vernation and presentation of a foot-focusing device for the binocular microscope used in this investigation.

DEPARTMENT OF BOTANY,
STATE UNIVERSITY OF IOWA,
IOWA CITY, IOWA.