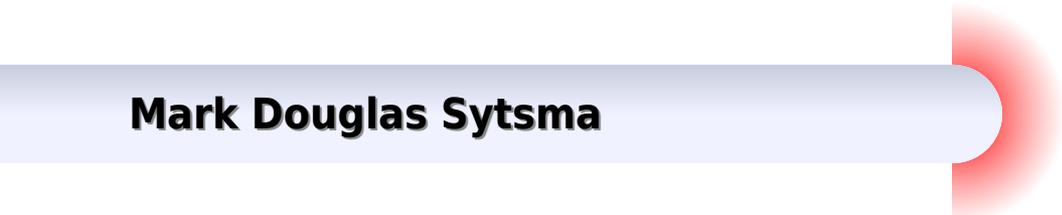


# Allocation of Plant Resources

- Plants allocate resources (photosynthetate) with the priority towards acquiring the most limiting resource(s).
- If water is limiting, allocation is shifted towards root growth over shoot growth.
- If leaf area is limiting, allocation is shifted towards leaf growth over shoot growth.

# Plant Resource Allocation

**Mark Douglas Sytsma**



## **Plant Resource Allocation:**

**Growth and Defence in Plants** R. Matyssek, Hans Schnyder, Wolfgang Oßwald, Dieter Ernst, Jean Charles Munch, Hans Pretzsch, 2012-09-14 Plants use resources i e carbon nutrients water and energy either for growth or to defend themselves from biotic and abiotic stresses This volume provides a timely understanding of resource allocation and its regulation in plants linking the molecular with biochemical and physiological level processes Ecological scenarios covered include competitors pathogens herbivores mycorrhizae soil microorganisms carbon dioxide ozone regimes nitrogen and light availabilities The validity of the Growth Differentiation Balance Hypothesis is examined and novel theoretical concepts and approaches to modelling plant resource allocation are discussed The results presented can be applied in plant breeding and engineering as well as in resource efficient stand management in agriculture and forestry **Plant Resource Allocation**

Fakhri A. Bazzaz, John Grace, 1997-07-23 Plant Resource Allocation is an exploration of the latest insights into the theory and functioning of plant resource allocation An international team of physiological ecologists has prepared chapters devoted to the fundamental topics of resource allocation Comprehensive coverage of all aspects of resource allocation in plants All contributors are leaders in their respective fields **Resource Allocation Within Plants** Zongjian Yang, 2003

**Resource Allocation in Plants** Melissa Boyce Lee, 2005 **Effects of Resource Distribution on Animal Plant Interactions** Mark D. Hunter, Takayuki Ohgushi, Peter W. Price, 1992-01-17 Natural variability in plants and animals Phenotypic and genotypic variation in plants and animals Resource distribution reproduction and population dynamics Resource distribution and patterns in animal plant communities Evolutionary responses to the distribution of resources

**Resource Allocation in Plant Populations of Different Habitats** Warren Gene Abrahamson, 1973 Budgeting and Resource Allocation at Princeton University Princeton University, 1972 **Proceedings**, 2004 Transpiration, Nutrient Limitation, and Resource Allocation in Myriophyllum Aquaticum Mark Douglas Sytsma, 1992 The Ecology and Evolution of Clonal Plants Hans de Kroon, 1997 Clonales Wachstum Evolution und Systematik kologie Plant-animal Interactions H. D. Kumar, 2000 Annual Review of Plant Physiology and Plant Molecular Biology Russell L. Jones, 1996-06 **Beiträge zur Biologie der Pflanzen**, 1995 **The American Naturalist**, 2006 *Contribution to the Nation Competitiveness in Energy and Food Security*, 2013 Advertising matter included in pagination Annales Botanici Fennici, 2004

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