

Literatur

- [1] Millenium Ecosystem Assessment. 2005. Ecosystems and human well-being: Synthesis. Island Press, Washington D.C.
- [2] TEEB. 2009. The Economics of Ecosystems and Biodiversity for National and International Policy Makers. Summary: Responding to the Value of Nature 2009. European Communities, Wesseling.
- [3] Balvanera P, Pfisterer AB, Buchmann N, He J-S, Nakashizuka T, Raffaelli D, Schmid B. 2006. Quantifying the evidence for biodiversity effects on ecosystem functioning and services. *Ecol Lett* 9:1146-1156.
- [4] Cardinale BJ, Srivastava DS, Duffy E, J., Wright JP, Downing AL, Sankaran M, Jouseau C. 2006. Effects of biodiversity on the functioning of trophic groups and ecosystems. *Nature* 443:989-992.
- [5] Pretzsch H. 2005. Diversity and productivity in forests: evidence from long-term experimental plots. In Scherer-Lorenzen M, Körner C, Schulze E-D, eds, Forest diversity and function Temperate and boreal systems. Vol 176-Ecological Studies. Springer, Berlin, Heidelberg, New York, pp 41-64.
- [6] Hartig GL. 1791. Anweisung zur Holzzucht für Förster. Neue Akademische Buchhandlung, Marburg.
- [7] von Cotta H. 1828. Anweisung zum Waldbau. Arnoldische Buchhandlung, Dresden, Leipzig.
- [8] Gayer K. 1886. Der gemischte Wald, seine Begründung und Pflege, insbesondere durch Horst- und Gruppenwirtschaft. Paul Parey, Berlin.
- [9] Möller A. 1922. Der Dauerwaldgedanke. Sein Sinn und seine Bedeutung. Verlag Julius Springer, Berlin.
- [10] Assmann E. 1970. The principles of forest yield study. Pergamon Press, Oxford, New York, Toronto.
- [11] Kelty MJ, Larson BC, Oliver CD eds. 1992. The ecology and silviculture of mixed-species forests. Kluwer Academic Publishers, Dordrecht, Boston, London.
- [12] Wiedemann E. 1951. Ertragskundliche und waldbauliche Grundlagen der Forstwirtschaft Sauerländer, Frankfurt/Main.
- [13] Pretzsch H. 2009. Produktivitätsrelation zwischen Fichte und Fichte/Buche – Konsequenzen angesichts des Klimawandels. *LWF Wissen* 63:44-55.
- [14] Yachi S, Loreau M. 1999. Biodiversity and ecosystem productivity in a fluctuating environment: the Insurance Hypothesis. *Proceedings of the National Academy of Sciences USA* 96:57-64.
- [15] Caspersen JP, Pacala SW. 2001. Successional diversity and forest ecosystem function. *Ecological Research* 16:895-903.
- [16] Vilà M, Vayreda J, Comas L, Ibáñez JJ, Mata T, Obón B. 2007. Species richness and wood production: a positive association in Mediterranean forests. *Ecol Lett* 10:241-250.
- [17] Jacob M, Leuschner C, Thomas FM. 2010. Productivity of temperate broad-leaved forest stands differing in tree species diversity. *Annals of Forest Science* 67.
- [18] Jacob M, Viedenz K, Polle A, Thomas F. 2010. Leaf litter decomposition in temperate deciduous forest stands with a decreasing fraction of beech (<i>Fagus sylvatica</i>). *Oecologia*.
- [19] Hättenschwiler S. 2005. Effects of tree species diversity on litter quality and decomposition. In Scherer-Lorenzen M, Körner C, Schulze E-D, eds, Forest diversity and function Temperate and boreal systems. Vol 176-Ecological Studies. Springer, Berlin, Heidelberg, New York, pp 149-164.
- [20] Sobek S, Scherber C, Steffan-Dewenter I, Tscharntke T. 2009. Sapling herbivory, invertebrate herbivores and predators across a natural tree diversity gradient in Germany's largest connected deciduous forest. *Oecologia* 160:279-288.

- [21] Fischer M, Bossdorf O, Gockel S, Hänsel F, Hemp A, Hessenmöller D, Korte G, Nieschulze J, Pfeiffer S, Prati D, Renner S, Schöning I, Schumacher U, Wells K, Buscot F, Kalko EKV, Linsenmair KE, Schulze E-D, Weisser WW. 2010. Implementing large-scale and long-term functional biodiversity research: The Biodiversity Exploratories. *Basic and Applied Ecology* 11:473-485.
- [22] Jactel H, Brockerhoff EG. 2007. Tree diversity reduces herbivory by forest insects. *Ecol Lett* 10:835-848.
- [23] Leuschner C, Jungkunst HF, Fleck S. 2009. Functional role of forest diversity: Pros and cons of synthetic stands and across-site comparisons in established forests. *Basic & Applied Ecology* 10:1-9.
- [24] Scherer-Lorenzen M, Potvin C, Koricheva J, Schmid B, Hector A, Bornik Z, Reynolds G, Schulze E-D. 2005. The design of experimental tree plantations for functional biodiversity research. In Scherer-Lorenzen M, Körner C, Schulze E-D, eds, *Forest diversity and function Temperate and boreal systems*. Vol 176-Ecological Studies. Springer, Berlin, Heidelberg, New York, pp 347-376.
- [25] Pretzsch H, Schütze G. 2009. Transgressive overyielding in mixed compared with pure stands of Norway spruce and European beech in Central Europe: evidence on stand level and explanation on individual tree level. *European Journal of Forest Research* 128:183-204.
- [26] Scherer-Lorenzen M, Schulze E-D, Don A, Schumacher J, Weller E. 2007. Exploring the functional significance of forest diversity: A new long-term experiment with temperate tree species (BIOTREE). *Perspectives in Plant Ecology, Evolution and Systematics* 9:53-70.
- [27] Don A, Arenhövel W, Jacob R, Scherer-Lorenzen M, Schulze E-D. 2007. Anwuchserfolg von 19 verschiedenen Baumarten bei Erstaufforstungen - Ergebnisse eines Biodiversitätsexperiments. *Allgemeine Jagd- und Forstzeitung* 178:164-172.
- [28] Potvin C, Dutilleul P. 2009. Neighborhood effects and size-asymmetric competition in a tree plantation varying in diversity. *Ecology* 90:321-327.
- [29] Bauhus J, Schmerbeck J. 2010. Silvicultural options to enhance and use forest plantation biodiversity. In Bauhus J, van der Meer P, Kanninen M, eds, *Ecosystem goods and services from plantation forests*. earthscan, London, Washington DC, pp 96-139.
- [30] Richards AE, Forrester DI, Bauhus J, Scherer-Lorenzen M. 2010. The influence of mixed tree plantations on the nutrition of individual species: a review. *Tree Physiol* 30:1192-1208.
- [31] Dhôte J-F. 2005. Implication of forest diversity in resistance to strong winds. In Scherer-Lorenzen M, Körner C, Schulze E-D, eds, *Forest diversity and function: temperate and boreal systems*. Vol 176-Ecological Studies. Springer, Berlin, Heidelberg, New York, pp 291-307.
- [32] Nadrowski K, Wirth C, Scherer-Lorenzen M. 2010. Is forest diversity driving ecosystem function and service? *Current Opinion in Environmental Sustainability* 2:75-79.
- [33] Hooper DU, Chapin FSI, Ewel JJ, Hector A, Inchausti P, Lavorel S, Lawton JH, Lodge D, Loreau M, Naeem S, Schmid B, Setälä H, Symstad AJ, Vandermeer J, Wardle DA. 2005. Effects of biodiversity on ecosystem functioning: a consensus of current knowledge and needs for future research. *Ecological Monographs* 75:3-36.