

## ECONOMICS on SUSTAINABILITY

Perman, R., Ma, Y., Common, M., Maddison, D., and J. McGilvray. 2003. Natural resources and Environmental Economics, 4th ed. Pearson Education Limited, Essex, England.

Topic	Key-Literature
<b>1</b> Sustainability indicators	<p>Perman et al. (2003): ch. 2.4, 2.5</p> <p>Hoekstra and Wiedmann (2014): Humanity’s unsustainable environmental footprint, Rethinking the global supply chain, Vol 344, Issue 6188, 1115-1117.</p> <p><i>Additional:</i></p> <p>Rockström, et al. (2009): Planetary Boundaries: Exploring the Safe Operating Space for Humanity. Ecology and Society 14(2): 32.</p> <p>Rockström,et al .(2009): A Safe Operating Space for Humanity. Nature, 462: 472-475.</p> <p>Cornell, Sarah. (2012): On the System Properties of the Planetary Boundaries. Ecology and Society 17.1: r2.</p> <p>Rees, William E. (2000): Eco-footprint analysis: merits and brickbats. Ecological Economics 32.3: 371-374.</p>
<b>2</b> Non-Renewable Resources I – Discounting	<p>Perman et al. (2003): ch. 3.5 “Intertemporal distribution“</p> <p>Conceição et al. (2007): Brief on Discounting in the Context of Climate Change Economics. UNDP, Human Development Report Office, Occasional paper No. 2007/19. (Section I, II, III(a) and Conclusion)</p> <p><i>Additional:</i></p> <p>Stern (2006): Review on the economics of climate change. London HM Treasury</p> <p>Nordhaus (2007): A Review of the Stern Review on the Economics of Climate Change. Journal of Economic Literature, pp. 686-702.</p> <p>.</p>
<b>3</b> Non-Renewable Resources II – Hotelling rule	<p>Perman et al. (2003): ch. 14.5 “The social welfare function and an optimal allocation of natural resources”</p> <p>Kronenberg (2008): Should we worry about the failure of the Hotelling rule? Journal of economic surveys, 22(4): 774. (Sections 1, 3, 4 and 7)</p> <p><i>Additional</i></p> <p>International Energy Agency (OECD/IEA), Technology Roadmap - Biofuels for Transport, 2011</p>

		<p>Fargione, J.; Hill, J.; Tilman, D.; Polasky, S. &amp; Hawthorne, P., Land Clearing and the Biofuel Carbon Debt, Science, 2008, 319, 1235-1238</p> <p>OECD, Agricultural Market Impacts of Future Growth in the Production of Biofuels, 2006, 6</p> <p>Kalkuhl, M.; Haile, M.; Kornher, L. &amp; Kozička, M., Cost-benefit framework for policy action to navigate food price spikes FOODSECURE, 2015</p>
4	7 Renewable Resources I – Maximum sustainable yield	<p>Perman et al. (2003): ch. 4.3 “Ecologists on sustainability“</p> <p>Perman et al.(2003): ch 14.7 “Generalisation to renewable resources“</p> <p>Perman et al.(2003): ch 17.1, 17.2, 17.3, 17.6</p> <p>SRU (2011): Sustainable Management of Fish Stocks: Reforming the Common Fisheries Policy. German Advisory Council on the Environment, Statement No. 16. (Paragraph 1- 20)</p>
5	8 Renewable Resources II – Stability of fisheries	<p>Perman et al.(2003): ch 17.4</p> <p>Froese, R. and Proelss, A. (2010): Rebuilding Fish Stocks no later than 2015: Will Europe meet the deadline? Fish and Fisheries, 11(2), pp. fisheries 194-202.</p>
6	Renewable Resources III – EU policy and common pool resources	<p>Perman et al. (2003):ch. 5.9 “Public goods”.</p> <p>Ostrom (1990): Governing the commons: The evolution of institutions for collective action. Cambridge university press.( Irrigation system examples)</p> <p><i>Additional</i></p> <p>Hardin (1968): The tragedy of the commons. New York</p> <p>Ostrom (2008): The challenge of common-pool resources. Environment: Science and Policy for Sustainable Development 50.4 8-21.</p> <p>Schlager, Edella, and Elinor Ostrom (1992): Property-rights regimes and natural resources: a conceptual analysis.Land economics, pp. 249- 262.</p> <p>Schlager, Edella (2004): Common-pool resource theory."Environmental Governance Reconsidered. MIT Press, Cambridge , pp. 145- 176.</p>
7	Resource Substitutability	<p>Perman et al. (2011): ch. 14.4, 19.2, 19.3, 19.4</p> <p>Hamilton et al. (2006): Capital Accumulation and Resource Depletion: A Hartwick rule counterfactual, Environmental &amp; Resource Economics 34: 517-533</p> <p><i>Additional</i></p>

		Solow, R. M. An almost practical step toward sustainability Resources for the Future, 1992
8	Environmental Kuznets Curve (EKK) and Pollution Heaven Hypothesis (PHH)	<p>Perman et al. (2003): Chapter 2.2., 5.2 “Affluence and Technology: The EKC“</p> <p>Dasgupta et al. (2002): Confronting the Environmental Kuznets Curve. Journal of Economic Perspectives, 16 (1) : 147-168.</p> <p><i>Additional</i></p> <p>Ceddia, M.; Sedlacek, S.; Bardsley, N. &amp; y Paloma, S. G., Sustainable agricultural intensification or Jevons paradox? The role of public governance in tropical South America, Global Environmental Change , 2013, 23, 1052 - 1063</p> <p>Barbier, E. B.; Burgess, J. C. &amp; Grainger, A., The forest transition: Towards a more comprehensive theoretical framework Land Use Policy, 2010, 27, 98 - 107</p>
9	Life Cycle Analysis (LCA) and Food consumption	<p>EEA 2012 State of the Environment report, Consumption and the Environment</p> <p>Tukker et al. (2011): Environmental impacts of changes to healthier diets in Europe</p> <p><i>Additional</i></p> <p>Carlsson Kanyama, A., Climate change and dietary choices - how can emissions of greenhouse gases from food consumption be reduced? Food Policy , 1998, 23, 277 - 293</p> <p>White, T., Diet and the distribution of environmental impact, Ecological Economics , 2000, 34, 145 - 153</p> <p>Wolf, O.; Pérez-Domínguez, I.; Rueda- Cantuche, J. M.; Tukker, A.; Kleijn, R.; de Koning, A.; Bausch-Goldbohm, S. &amp; Verheijden, M., Do healthy diets in Europe matter to the environment? A quantitative analysis Journal of Policy Modeling , 2011, 33, 8 – 28</p> <p>Duda and Shaw (1997): Life Cycle Assessment. Social Science and Public Policy Vol. 40</p> <p>White and Shapiro (1993): Life Cycle Assessment: A second opinion, Environ. Sci. Technol. Vol. 27, No. 6</p>
10	Monetary Valuation I – projects and monetary valuation	<p>Perman et al. (2003): ch. 12.1, 11.3</p> <p>European Community (2008): TEEB: An interim Report, Section 2</p>

<b>11</b> Monetary Valuation II – Background Monetary evaluation	Perman et al. (2003): ch. 12.2  Cornwell and Creedy (1997): Measuring the welfare effects of tax changes using the LES: An application to a carbon tax
<b>12</b> Monetary Valuation III – Valuation techniques	Perman et al. (2003): ch. 12.3, 12.4, 12.6  Rumi Shammin (1999): Application of the Travel Cost Method (TCM): A Case Study of Environmental Valuation of Dhaka Zoological Garden. In Joy E. Hecht, ed., 1999. <i>The Economic Value of the Environment: Cases from South Asia</i> , IUCN.  Loomis, John B.; González-Cabán, Armando; Gregory, Robin. (1996): A contingent valuation study of the value of reducing fire hazards to old-growth forests in the Pacific Northwest. Res. Paper PSW-RP-229-Web. Albany, CA: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture; 24  Saptutynigsih and Suryango (2011): Hedonic Price Approach of Flood effect on Agricultural Land. <i>Economic Journal of Emerging Markets</i> 3(1): 87-96
<b>13</b> Monetary Valuation IV – Stated preference method	Perman et al. (2003): ch. 12.5, 12.6