

## References

Papers of particular interest, published within the period of review, have been highlighted as:

- of special interest
- of outstanding interest

### Issue 2

#### *NO article*

1. Wood S, Sebastian K, Scherr SJ: *Pilot Analysis of Global Ecosystems: Agroecosystems* Washington, D.C.: IFPRI/World Resource Institute; 2000: 110.
2. Schade C, Pimentel D: **Population crash: prospects for famine in the twenty-first century.** *Environ Dev Sustain* 2010, **12**:245–262.
3. Lumpkin T: **Present and future of transgenic wheat.** 8th Int. Wheat Conf., June 1–4, 2010, St. Petersburg, Russia; 2010 (pers. comm.).
4. Cassman KG, Dobermann A, Walters DT, Yang H: **Meeting cereal demand •• while protecting natural resources and improving environmental quality.** *Annu Rev Environ Resour* 2003, **28**:10.1–10.44.

Recent trends and future trajectories in crop yields, land and nitrogen fertilizer use, carbon sequestration, and greenhouse gas emissions are evaluated to explore prospects for conserving natural resources while meeting increased demand for cereals.

5. Tilman D, Cassman KG, Matson PA, Naylor R, Polasky S: **Agricultural •• sustainability and intensive production practices.** *Nature* 2002, **418**: 671–677.

New incentives and policies for ensuring the sustainability of agriculture and ecosystem services are proposed to meet the demands of improving yields without compromising environmental integrity or public health.

6. Fischer J, Manning AD, Steffen W, Rose DB, Daniell K, Felton A, Garnett S, Gilna B, Heinsohn R, Lindenmayer DB et al.: **Mind the sustainability gap.** *Trends Ecol Evol* 2007, **22**:621–624.

They recommend two strategies for progress. First, sustainability must be conceptualized as a hierarchy of consideration. Second, transdisciplinary research programs must confront key normative questions facing modern consumer societies.

7. Godfray HCJ, Beddington JR, Crute IR, Haddad L, Lawrence D, Muir JF, Pretty J, Robinson S, Thomas SM, Toulmin C: **Food security: the challenge of feeding 9 billion people.** *Science* 2010, **327**:812–818.

A multifaceted and linked global strategy is needed to ensure sustainable and equitable food security, different components of which are explored here.

8. Spiertz JHJ, Oenema O: **Resource use efficiency and management of nutrients in agricultural systems.** *ERSEC Ecol. Book Series-1. On Sustainable Agricultural Systems.* Tsinghua University Press and Springer; 2005: 171–183.

9. Ahrens TD, Lobell DB, Ortiz-Monasterio JI, Li Y, Matson PA: **Narrowing the agronomic yield gap with improved nitrogen use efficiency: a modelling approach.** *Ecol Appl* 2010, 20:91–100.
10. Reynolds MP, Saint Pierre C, Saad Abu SI, Vargas M, Condon AG: **Evaluating potential genetic gains in wheat associated with stress-adaptive trait expression in elite genetic resources under drought and heat stress.** *Crop Sci* 2007, 47:172–189.

Although genetic resources provide an invaluable gene pool for crop breeding, the majority of accessions in germplasm collections remain uncharacterized and their potential to improve stress adaptation is not quantified.

11. Ma L, Ma WQ, Velthof GL, Wang FH, Qin W, Zhang FS, Oenema O: **Modelling nutrient flows in the food chain of China.** *J Environ Qual* 2010, 39:1279–1289.

The losses associated with increased N and P inputs were analysed in cropping and animal production systems, and in the whole food chain in China.

12. Cordell D, Drangert J-O, White S: **The story of phosphorus: global food security and food for thought.** *Global Environ Change* 2009, 19:292–305.
13. Spiertz JHJ: **Nitrogen, sustainable agriculture and food security. A review.** *Agron Sustain Dev* 2010, 30:43–55.

It is concluded that the growing complexity of managing N in sustainable agricultural systems calls for problem-oriented, interdisciplinary research.

14. Spiertz JHJ, Ewert F: **Crop production and resource use to meet the growing demand for food, feed and fuel: opportunities and constraints.** *NJAS, Wageningen J Life Sci* 2009, 56:281–300.
15. Jackson L, Van Noordwijk M, Bengtsson J, Foster W, Lipper L, Pulleman M, Said M, Snaddon J, Vodouhe R: **Biodiversity and agricultural sustainability: from assessment to adaptive management.** *Curr Opin Environ Sustain* 2010, 1:1–8.

The use and conservation of agrobiodiversity is explored along temporal, spatial, and human institutional scales. Incentives are necessary if agrobiodiversity is to provide benefits to future generations.

16. Posthumus H, Rouquette JR, Morris J, Gowing DJG, Hess TM: **A framework for the assessment of ecosystems goods and services; a case study on lowland floodplains in England.** *Ecol Econ* 2010, 69:1510–1523.

This paper explores changes in rural land use in floodplains by measuring the range of ecosystem services provided under different management scenarios.

17. Giller KE, Beare MH, Lavelle P, Izac A-MN, Swift MJ: **Agricultural intensification, soil biodiversity and agroecosystem functioning.** *Appl Soil Ecol* 1997, 6:3–16.

In this paper the authors propose a number of hypotheses which could be tested to explore the relationships between agricultural intensification, biodiversity in tropical soils, and ecosystem functions.

18. Johnson RB: **Sustainable agriculture: competing visions and policy avenues.** *Int J Sust Dev World Ecol* 2006, 13:469–480.
19. Brussaard L, Caron P, Campbell B, Lipper L, Mainka S, Rabbinge R, Babin D,

- Pulleman M: **Reconciling biodiversity conservation and food security: scientific challenges for a new agriculture.** *Curr Opin Environ Sustain* 2010, **2**:1–9.

Significant changes in policies, institutions, and practices are necessary to make advances in ecology work for reconciling biodiversity conservation and food security.

20. Swift MJ, Izac A-MN, Van Noordwijk M: **Biodiversity and ecosystem services in agricultural landscapes—are we asking the right questions?** *Agric Ecosyst Environ* 2004, **104**:113–134.

The evaluated assumed relationship between biodiversity or local richness and the persistence of 'ecosystem services' in agricultural landscapes.

21. Devos Y, Maesele P, Reheul D, Van Speybroeck L, De Waele D: **Ethics in the societal debate on genetically modified organisms: a (re)quest for sense and sensibility.** *J Agric Environ Ethics* 2007, **21**:29–61.
22. Ervin DE, Glenna LL, Raymond AJ Jr: **Are biotechnology and sustainable agriculture compatible?** *Renew Agric Food Syst* 2010, **25**:143–157.

The sustainability potential of biotechnology is discussed with respect to required fundamental changes in the way public and private research and technology development and commercialization are structured and operated.

23. Frewer L, Lassen J, Kettlitz B, Scholderer J, Beekman V, Berdal KG: **Societal aspects of genetically modified food.** *Food Chem Toxicol* 2004, **42**:1181–1193.
24. Marris C: **Public views on GMOs: deconstructing the myths.** *EMBO Rep* 2001, **2**:545–548.
25. Dangl JL, Banta L, Boerma R, Carrington JC, Chory J, Kay SA, Lewis S, Mitchell-Olds T, Sinha NR, Snyder M, et al.: **New horizons in plant sciences for human health and the environment.** Report of the National Academies; 2008: 20.
26. Kvakkestad V: **Institutions and the R&D of GM-crops.** *Ecol Econ* 2009, **68**:2688–2695.
27. Singh RP, Hodson DP, Huerta-Espino J, Jin Y, Njau P, Wanvera R, Herrera-Foessel SA, Ward RW: **Will stem rust destroy world's wheat crop?** *Adv Agron* 2008, **89**:271–309.
28. Federoff NV, Battisti DS, Beachy RN, Cooper PJM, Fischhoff DA, Hodges CN, Knauf VC, Lobell D, Mazur BJ, Molden D et al.: **Radically rethinking agriculture for the 21st century.** *Science* 2010, **327**:833–834.
29. Burney J, Woltering L, Burke M, Naylor R, Pasternak D: **Solar-powered drip irrigation enhances food security in the Sudano-Sahel.** *Proc Natl Acad Sci USA* 2010, **107**:1848–1853.

This paper analyzes solar-powered drip irrigation as a strategy for enhancing food security in the rural Sudano-Sahel region of West Africa.

30. Yin X, Struik PC, Kropff MJ: **Role of crop physiology in predicting genotype-phenotype relationships.** *Trends Plant Sci* 2004, **9**:426–432.

Ways of integrating crop modeling into genetic and genomic research to enhance 'plant breeding by design' are presented.

31. Challinor AJ, Ewert F, Arnold S, Simelton E, Fraser E: **Crops and climate change: progress, trends, and challenges in simulating impacts and informing adaptation.** *J Exp Bot* 2009, **60**:2775–2789.

Challenges associated with impacts and adaptation research are discussed. It is argued that the generation of knowledge for policy and adaptation should be based not only on syntheses of published studies, but also on a more synergistic and holistic research framework.

32. Ramaekers L, Remans R, Rao Idupulapati M, Blair Matthew W, Vanderleyden J: **Strategies for improving phosphorus acquisition efficiency of crop plants.** *Field Crop Res* 2010, **117**:169–176.
33. Gebbers R, Adamchuk Viacheslav I: **Precision agriculture and food security.** *Science* 2010, **327**:828–831.
34. Giller KE, Witter E, Corbeels M, Tittonell P: **Conservation agriculture and smallholder farming in Africa: the heretics' view.** *Field Crop Res* 2009, **114**:23–34.

A critical assessment under which ecological and socio-economic conditions conservation agriculture (CA) is best suited for smallholder farming in sub-Saharan Africa.

35. Flora CB: **Food security in the context of energy and resource depletion: sustainable agriculture in developing countries.** *Renew Agric Food Syst* 2010, **25**:118–128.

Which investments, policy interventions and capacity building are more effective in increasing productivity and the well-being of agricultural producers?

36. Douthwaite B, Gummert M: **Learning selection revisited: How can agricultural researchers make a difference?** *Agric Syst* 2010, **103**:245–255.
37. Vergragt PJ, Brown HS: **Genetic engineering in agriculture: new approaches through sustainability reporting.** *Technol Forecast Social Change* 2008, **75**:783–798.

This paper proposes a novel approach to including the public in evaluating the impacts of food and agricultural biotechnology and present and future applications modeled after the growing practice of sustainability reporting by companies.

38. Tester M, Langridge P: **Breeding technologies to increase crop production in a changing world.** *Science* 2010, **327**:818–822.

It is shown that new technologies must be developed to accelerate breeding through improving genotyping and phenotyping methods and by increasing the available genetic diversity in breeding germplasm.

39. Pardue SL: **Global views of new agriculture. Food, energy, and the environment.** *Poult Sci* 2010, **89**:797–802.
40. Fischer RA, Edmeades GO: **Breeding and cereal yield progress.** *Crop Sci* 2010, **50**:85–98.

This paper reviews recent progress in wheat, rice, and maize yields resulting from substantial breeding efforts in mostly favorable environments and examines its physiological basis.

## Issue 3

### *YES article*

1. For an excellent discussion about globalization, see Johan Norberg, *In Defence of Global Capitalism*, Timbro, Sweden, 2001, or Lindsey, Brink and John Wiley & Sons, *Against the Dead Hand: The Uncertain Struggle for Global Capitalism*; 1st edition (December 21, 2001).
2. Sowell, Thomas, *A Conflict of Visions: Ideological Origins of Political Struggle*, New York: William Morrow and Co., 1987.
3. Grossman, G.M. and A.B. Krueger (1995). "Environmental Impacts of a North American Free Trade Agreement." National Bureau of Economic Research Working Paper No. 3914, November; also Grossman and Krueger (1993) "Environmental Impacts of a North American Free Trade Agreement," in P. Garder (ed.), *The U.S.-Mexico Free Trade Agreement*. MIT Press: Cambridge, Mass.; and Grossman and Krueger (1995). "Economic Growth and the Environment." *Quarterly Journal of Economics*. Vol. 110(2). G.M. Grossman and A.B. Krueger (1995). "Environmental Impacts of a North American Free Trade Agreement."
4. Vaughan, Scott and Greg Block, "Free Trade and the Environment: The Picture Becomes Clearer," Commission for Environmental Cooperation of North America, 2002, Montréal, Canada, p. 2.
5. Simon Kuznets was awarded the 1971 Nobel Laureate in Economics for his empirically founded interpretation of economic growth. His analysis of the empirical characteristics of developing countries led to his discovery of what has become known as the Kuznets curve—the inverted U-shaped relation between income inequality and economic growth.
6. Yandle, Bruce, Maya Vijayaraghavan, and Madhusudan Bhattarai, *The Environmental Kuznets Curve: A Primer*, Property and Environmental Research Center, PERC Research Study 02-1, March 2002 provides a good overview of the development of the environmental Kuznets theory.
7. Mitra, Barun, "Poverty, Wealth and Waste," PERC Reports, March 2000, p. 3.
8. Dixie Lee Ray, who was in her seventies when she wrote *Trashing the Planet* (Regnery Gateway, Washington, DC, 1990), provides a colorful description of how the world has changed since her early years. See, for example, pages 14–18 in which she tells about the era of "the horse and buggy, the outhouse, and dirt."
9. Estonia poses a fascinating example of both "spillover effects" from globalization and transitions into cleaner technologies. The development of the Information Technology (IT) sector in Estonia has benefited immeasurably from positive spillover effects from telecommunications and IT innovations nurtured in the Nordic countries across the Baltic. Estonia remains well placed to continue a process of growth that has seen it progress within a decade from low-level component assembly to the indigenous production of sophisticated niche software. The first wave of companies concentrating primarily on IT was founded in 1990–91 on little more than intellectual capital. A second wave of smaller, more focused enterprises with an added appreciation of entrepreneurship began to appear in 1996–97 as the extent of government support for the sector became apparent. This year [2002] has

seen a third distinct round of company starts-ups, this time devoted to developing value-added services for use in mobile communications. (Presentation at the annual Microsoft Government Leaders' Conference in Seattle, Washington, April 16, 2002. See also Mart Larr, *Little Country that Could*, Centre for Research into Post-Communist Countries, London, 2002.)

10. In "Globalization, Free Trade, and Environmental Quality" (in Terry L. Anderson (ed.), *You Have to Admit It's Getting Better—the Environment that Is*, Hoover Institution Press, forthcoming), Del Gardner describes a study by Don Coursey (*The Demand for Environmental Quality*, John M. Olin School of Business, Washington University, St. Louis, 1992) which pooled time-series and cross-sectional data from Organization for Economic Cooperation and Development countries and used expenditures by government for environmental goods as a proxy for the quantity of these goods. Coursey estimated the income elasticity of demand to be 2.5 (a 10 percent increase in income is associated with a 25 percent increase in expenditures), suggesting that higher incomes lead to technologies and policies that produce a higher quality environment.
11. Benjamin, Daniel K., "Tangents," PERC Reports, March 2002, p. 16.
12. This point is made by Indur M. Goklany, in his description of earlier stages of development: "society places a much higher priority on acquiring basic public health and other services such as sewage treatment, water supply, and electricity than on environmental quality, which initially worsens. But as the original priorities are met, environmental problems become higher priorities. More resources are devoted to solving those problems. Environmental degradation is arrested and then reversed." See Indur M. Goklany, "The Environmental Transition to Air Quality," *Regulation*, Vol. 21, No. 4, 1998, p. 36.
13. Goklany, Indur M., "The Environmental Transition to Air Quality," *Regulation*, Vol. 21, No. 4, 1998, p. 36.
14. Sierra Club, *Broken Promises: How the Clinton Administration Is Trading Away Our Environment*, <http://www.sierraclub.org/trade/articles/brokenpromises/promise3.asp>, no date.
15. "Dangerous Curves: Does the Environment Improve with Economic Growth?" WWF International Research Report, commissioned from the New Economics Foundation, 1996; and "Emerging Issues at the Interface of Domestic and International Policy: Agricultural Trade and the Environment," WWF International Working Paper, October 1998.
16. Bernstam, Mikhail, *The Wealth of Nations and the Environment*, Institute of Economic Affairs, London, 1991, p. 7.
17. Antweiler, Werner, Brian R. Copeland, and M. Scott Taylor, "Is Free Trade Good for the Environment?" *American Economic Review*, 91 (4) September, 2001, 877–908.
18. Gardner, Del, "Globalization, Free Trade, and Environmental Quality" in Terry L. Anderson (ed.), *You Have to Admit It's Getting Better—the Environment that Is*, Hoover Institution Press, forthcoming.
19. Terry Anderson and Laura Huggins, *Property Rights: A Practical Guide to Freedom & Prosperity* Hoover Institution Press, Stanford, California, 2003, p. 6.
20. North is one of the pioneers of "the new institutional economics" which attempts to incorporate a theory of institutions into economics. See for

- example, North, Douglass C., *Institutions, Institutional Change and Economic Performance*, Cambridge University Press, November 1990.
21. Gwartney, James and Robert Lawson, *Economic Freedom of the World, 2002 Annual Report*, The Fraser Institute, Vancouver, Canada, 2002, p. xviii.
  22. Baden, John and Richard L. Stroup, *Bureaucracy vs. Environment*, Ann Arbor, Michigan: The University of Michigan Press, 1981; Anderson, Terry, and Donald R. Leal, *Free Market Environmentalism: Revised edition*, Palgrave Press, NY, 2001:
  23. Consider the example of forestry management. The private forester who cuts at an unsustainable rate will eventually go out of business. Being unable to produce competitive products at a competitive price, the market will automatically extend its invisible hand and weed out the inferior producers. Through these interactions, private property owners are held accountable for their actions. Good stewardship yields maximum returns and preserves property values. Bad stewardship leads to eroding property values and fewer returns. In contrast, there are no such tangible signs of good and bad management with government stewards. Programs that fail are assumed to be underfunded. Consequently, we often end up with the perverse situation under regulatory control in which the worst managers are often given the greatest budgets.
  24. *Economic Freedom of the World 2003 Annual Report*, The Fraser Institute, Vancouver, Canada, 2003, p. 7.
  25. Environmental degradation is just one consequence of weak institutions. Several econometric models show how economic freedom correlates with these and other institutional factors. See the annual indices *Economic Freedom of the World* (Fraser Institute, Vancouver, Canada) and the *Economic Freedom Index* (Heritage Foundation, Washington, DC).
  26. Wilson, Scott, "A life worth more than gold," *The Washington Post*, June 8, 2002.
  27. Example provided by Barun Mitra, Liberty Institute, New Delhi, 2003.
  28. Yandle, Bruce, Maya Vijayaraghavan, and Madhusudan Bhattarai, *The Environmental Kuznets Curve: A Primer*, Property and Environmental Research Center, PERC Research Study 02-1, March 2002, p. 17.
  29. A study by Panayotou (1997) further sheds light on these relationships. In his study of the Kuznets curve relationship for sulfur dioxide in 30 developed and developing countries for the period 1982–94, Panayotou found that faster economic growth and higher population density do increase moderately the environmental price of economic growth. But better policies can offset these effects and make economic growth more environmentally friendly and sustainable. The policy variables used in the Panayotou study are proxies for the quality of institutions. The author experimented with a set of five indicators of the quality of institutions in general: respect/enforcement of contracts, efficiency of the bureaucracy, the efficacy of the rule of law, the extent of government corruption, and the risk of appropriation. Panayotou's main finding is that the quality of policies and institutions in a country can significantly reduce environmental degradation at low-income levels and speed up improvements at higher-income levels. See Yandle, Vijayaraghavan, and Bhattarai, 2002, p. 13).

30. Reed, Lawrence W., *A Privatization Revolution—In a Most Unlikely Place, Ideas on Liberty*, Foundation for Economic Education, Irvington, New York, June 2002.
31. LaFaive, Michael, *Singing the Praises of Privatization*, Michigan Privatization Report, Mackinac Center of Public Policy, September 9, 2002.
32. Jagdish Bhagwati (*Free Trade Today*, Princeton University Press, 2002, pp. 58–59) argues that while the race-to-the-bottom argument may be theoretically valid, it fails on empirical grounds. Little evidence exists that governments actually play the competitive game by offering to cut standards, or that multinational corporations are seduced by such concessions. See Gardner, forthcoming, p. 14.

## Issue 4

### YES article

1. Richard Layard, *Happiness: Lessons from a New Science* (New York: Penguin, 2005), p. 3.
2. David G. Myers, *The American Paradox: Spiritual Hunger in an Age of Plenty* (New Haven, CN: Yale University Press, 2001), pp. 1, 7–8.
3. Gregg Easterbrook, *The Progress Paradox: How Life Gets Better While People Feel Worse* (New York: Random House, 2003), p. xx.
4. *Ibid.*, p. xvii. Easterbrook here is quoting Alan Wolfe's formulation of Robert Lane's thesis in Wolfe's review essay "Undialectical Materialism," *The New Republic*, October 23, 2000, pp. 28–43.
5. Richard A. Easterlin, "Does Economic Growth Improve the Human Lot?" in *Nations and House-holds in Economic Growth: Essays in Honor of Moses Abramovitz*, ed. Paul A. David and Melvin W. Reder (New York: Academic Press, 1974).
6. Geoffrey Miller, "Social Policy Implications of the New Happiness Research," an answer to Edge.org's question "What Is Today's Most Unreported Story," [www.edge.org/3rd\\_culture/story/86.html](http://www.edge.org/3rd_culture/story/86.html).
7. Layard, *Happiness: Lessons*, pp. 233–34, for Layard's policy laundry list. On education, see also, pp. 200–201.
8. Jon Gertner, "The Futile Pursuit of Happiness," *New York Times Magazine*, September 7, 2003, p. 44
9. Layard, *Happiness: Lessons*, p. 152.
10. Andrew Oswald, "The Hippies Were Right All Along about Happiness," *Financial Times*, January 18, 2006.
11. The survey, results, and analysis of many different studies can be found at <http://worldvaluessurvey.org>.
12. The text of the Midlife Development Inventory can be found at [http://www.midus.wisc.edu/midus1/mail\\_parts\\_1\\_2.pdf](http://www.midus.wisc.edu/midus1/mail_parts_1_2.pdf).
13. See Ed Diener et al., "The Satisfaction with Life Scale," *Journal of Personality Assessment* 49, no.1 (1985). The scale itself can be found at <http://www.psych.uiuc.edu/~ediener/hottopic/hottopic.html>.
14. Radcliff, p. 941.



15. Miller deploys an updated version of the classic argument for redistribution from the diminishing marginal utility of income. Political philosopher and economist David Schmidtz notes that, even granting utilitarian premises, diminishing marginal utility need not have redistributive implications in a world where not all income is immediately consumed, but in which some is invested in wealth-creating production—that is, in the actual world. David Schmidtz, *Elements of Justice* (New York: Cambridge University Press, 2006), pp. 144–46.
16. Ruut Veenhoven, “Well-being in the Welfare State,” *Journal of Happiness Studies* (2000).
17. Piet Ouweneel, “Social Security and Well-Being of the Unemployed in 42 Nations,” *Journal of Happiness Research* 3 (2002): 167–92, 2002.
18. Ibid.
19. Ibid. The number of nations in Radcliff is 11 and in Di Tella is 12. Ouweneel’s study looks at 42.
20. See, for example, Charles B. Blankart and Christian Kirchner, “The Deadlock of the EU Budget: An Economic Analysis of Ways In and Ways Out,” Center for Economic Studies and Ifo Institute for Economic Research at the University of Munich, CESifo Working Paper No. 989, 2003; Robert A. Musgrave, “The Theory of Public Finance: a Study in Political Economy,” (New York: McGraw-Hill, 1959); Arthur C. Pigou, “The Economics of Welfare” (New Brunswick, NJ: Transaction Publishers, 2002).
21. Christian Bjornskov, Axel Dreher, and Justina Fischer, “The Bigger the Better? Evidence of the Effect of Government Size on Life Satisfaction Around the World,” Working Paper 05/44, Swiss Federal Institute of Technology, Zurich, October 2005. Emphasis added.
22. Alberto Alesina, Rafael Di Tella, Robert MacCulloch, “Inequality and Happiness: Are Europeans and Americans Different?” *Journal of Public Economics* 88 (2004): pp. 2009–42.
23. Jan Ott, “Level and Inequality of Happiness in Nations: Does Greater Happiness of a Greater Number Imply Greater Inequality in Happiness,” *Journal of Happiness Studies* 6 (2005): 397–420.
24. Ibid.
25. Ruut Veenhoven, “Apparent Quality-of-Life in Nations: How Long and Happy People Live,” *Social Indicators Research* 71 (2005): 61–86.
26. Tomi Ovaska and Ryo Takashima, “Economic Policy and the Level of Self-Perceived Well-Being: An International Comparison,” *Journal of Socio-Economics* 35 (2006): 308–25.
27. Ibid.
28. Richard Layard, “Happiness: Has Social Science Got a Clue?” London School of Economics, Lionel Robbins Memorial Lectures, 2002/2003, <http://cep.lse.ac.uk/events/lectures/layard/RL030303.pdf>.
29. Richard Layard, “Happiness is Back,” *Prospect*, March 2005.
30. Robert Kennedy, Address, University of Kansas, Lawrence, Kansas, March 18, 1968. Kennedy referred specifically to GNP, which has been largely replaced by GDP for purposes of estimating the size of the economy and rate of economic growth. GNP apparently also tells the Bhutanese everything about

Bhutan except why they are proud to be Bhutanese, which is why King Druk Gyalpo Jigme Singye Wangchuck officially jettisoned GNP way back in 1974 in favor of what he calls "Gross National Happiness." See "Preface" in *Gross National Happiness and Development* (Thimphu: Centre for Bhutan Studies, 2004), <http://www.bhutanstudies.org.bt/publications/gnh-dvlpmt/GNH-I-1.pdf>.

31. Romina Boarini, Asa Johansson, and Marco Mira d'Ercole "Alternative Measures of Well-Being," OECD Social, Employment and Migration Working Papers, no. 33, February, 17, 2006, <http://www.oecd.org/dataoecd/13/38/36165332.pdf>.
32. Vito Tanzi and Hamid R. Davoodi, "Corruption, Growth, and Public Finances," IMF Working Paper WP/00/182, 2000.
33. Ibid.
34. Benjamin M. Friedman, *The Moral Consequences of Economic Growth* (New York: Knopf, 2005), p. 4.
35. Tyler Cowen, *In Praise of Commercial Culture*.
36. "In summary both absolute and relative utility effects are active as national happiness varies with national income. Contrary to strong models of relative utility, happiness is not a zero sum game. Instead, increasing the income of all does increase the happiness of all, but adaptation reduces the rate of increase to about half of its peak." p. 21
37. Ruut Veenhoven and Michael Hagerty, "Rising Happiness in Nations 1946–2004: A Reply to Easterlin," *Social Indicators Research* (2006) 79, pp. 421–36.
38. Tim Kasser, *The High Price of Materialism* (Cambridge, MA: MIT Press, 2002), p. 106.
39. Stephanie M. Bryant, Dan Stone, and Benson Wier, "Articulating a Positive Relationship to Money," presented at the Designing Information and Organizations with a Positive Lens Conference, November 11–12, 2005, <http://weatherhead.case.edu/design/PositionPapers/Dan%20Stone%20et%20al.doc>.
40. Ronald Inglehart and Christian Welzel, *Modernization, Cultural Change, and Democracy: The Human Development Sequence* (New York: Cambridge University Press, 2005), p. 97.
41. Ibid., p. 98.
42. Ibid., p. 103.
43. Ibid., p. 104.
44. Barry Schwartz, *The Paradox of Choice: Why More Is Less* (New York: HarperCollins, 2004).
45. Robert E. Lane, *The Loss of Happiness in Market Democracies* (New Haven: Yale University Press, 2000), p. 165. Schwartz quotes a smaller bit of this passage in *The Paradox of Choice*, p. 109.
46. J. M. Keynes, "Economic Possibilities for Our Grandchildren," in *Essays in Persuasion* (New York: Norton, 1991), p. 367.

#### NO article

1. Marks N, Abdallah S, Simms A and Thompson S (2006) *The (un)Happy Planet Index: An index of human well-being and ecological impact* (London: nef).
2. Ibid.

3. Based on the locations of downloads of the report within the first two days of it being launched.
4. Cyran R (2008) 'Greenspan admits flaw in hands-off approach; pity it's a decade too late' *The Daily Telegraph*, 24 October.
5. Walker K (2009) 'Was that an apology? Brown admits he could have done more to prevent economic crisis' *The Daily Mail*, 22 May.
6. Giddens A (2009) 'This climate crunch heralds the end of the end of history' *The Guardian*, 11 March. This is a response to the now clearly naïve belief of political scientist Francis Fukuyama that, following the collapse of communism in 1990, we had reached 'the end of history'.
7. Friedman T (2009) 'The infection is near?' *The New York Times*, 8 March.
8. Meadows D, Meadows D, Randers J and Behrens W (1972) *The limits to growth* (New York: Universe Books).
9. Daly H (2008) *A steady-state economy* (London: UK Sustainable Development Commission). Available at [www.sd-commission.org.uk/publications/downloads/Herman\\_Daly\\_thinkpiece.pdf](http://www.sd-commission.org.uk/publications/downloads/Herman_Daly_thinkpiece.pdf).
10. Pettifor A (ed.) (2003) *Real world economic outlook* (Basingstoke, UK: Palgrave Macmillan) p. xxvi.
11. ILO (2009) *Global Employment Trends—January 2009*. Available at [www.ilo.org/wcmsp5/groups/public/---dgreports/---dcomm/documents/publication/wcms\\_101461.pdf](http://www.ilo.org/wcmsp5/groups/public/---dgreports/---dcomm/documents/publication/wcms_101461.pdf)
12. An excellent account of how our current economic system is dependent on growth can be found in Chapter 6 of Jackson T (2009) *Prosperity without growth* (London: Sustainable Development Commission).
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