

- **References**

- **Special chapters of**
The State of Food and Agriculture



References

- Ahmed, A.U., Rabbani, M., Sulaiman, M. & Das, N.C.** 2009. *The impact of asset transfer on livelihoods of the ultra poor in Bangladesh*. Research Monograph Series No. 39. Dhaka, Bangladesh Rural Advancement Committee.
- Ahmed, R. & Hossain, M.** 1990. *Development impact of rural infrastructure in Bangladesh*. IFPRI Research Report 83. Washington, DC, IFPRI.
- Akroyd, S. & Smith, L.** 2007. *Review of public spending to agriculture*. A joint DFID/ World Bank study. Oxford, UK, Oxford Policy Management.
- Allcott, H., Lederman, D. & López, R.** 2006. *Political institutions, inequality, and agricultural growth: the public expenditure connection*. Policy Research Working Paper Series 3902. Washington, DC, World Bank.
- Alston, J.** 2010. *The benefits from agricultural research and development, innovation, and productivity growth*. OECD Food, Agriculture and Fisheries Working Papers No. 31. Paris, OECD.
- Alston, J.M., Beddow, J.M. & Pardey, P.G.** 2010. Global patterns of crop yields and other partial productivity measures and prices. In J.M. Alston, B.A. Babcock & P.G. Pardey, eds. *The shifting patterns of agricultural productivity worldwide*. CARD-MATRIC Electronic Book. Ames, USA, Center for Agricultural and Rural Development, The Midwest Agribusiness Trade Research and Information Center, Iowa State University (available at www.matric.iastate.edu/shifting_patterns).
- Alston, J., Marra, M., Pardey, P. & Wyatt, T.** 2000. Research returns redux: a meta-analysis of the returns to agricultural R&D. *Australian Journal of Agricultural and Resource Economics*, 44(2): 185–215.
- Anderson, K., ed.** 2009. *Distortions to agricultural incentives: a global perspective, 1955–2007*. London, Palgrave Macmillan and Washington, DC, World Bank.
- Anderson, K. & Brückner, M.** 2011. *Price distortions and economic growth in Sub-Saharan Africa*. CEPR (Center for Economic Policy Research) Discussion Papers 8530. London, CEPR.
- Anderson, K. & Nelgen, S.** 2012. *Updated national and global estimates of distortions to agricultural incentives, 1955 to 2010*. Washington, DC, World Bank.
- Anderson, K. & Valenzuela, E.** 2008. *Estimates of global distortions to agricultural incentives, 1955 to 2007*. Washington, DC, World Bank.
- Anderson, K., Lloyd, P. & MacLaren, D.** 2007. Distortions to agricultural incentives in Australia since World War II. *The Economic Record*, 83(263): 461–482.
- Anderson, K., Valenzuela, E. & van der Mensbrugghe, D.** 2009. *Welfare and poverty effects of global agricultural and trade policies using the linkage model*. Agricultural Distortions Working Paper 52785. Washington, DC, World Bank.
- Anseeuw, W., Ducastel, A. & Gabas, J.** 2011. *The end of the African peasant? From investment funds and finance value chains to peasant related questions*. Paper presented at the International Conference on Global Land Grabbing. Brighton, UK, 6–8 April 2011.
- Anseeuw, W., Wily, L.A., Cotula, L. & Taylor, M.** 2012. *Land rights and the rush for land: findings of the global commercial pressures on land research project*. Rome, ILC (International Land Coalition).
- Anson, R. & Zegarra, E.** 2008. *Honduras: public expenditure assessment and strategy for an enhanced agricultural and forestry sector*. Draft paper prepared for the World Bank Agriculture and Rural Development Sector in collaboration with RUTA. Washington, DC, World Bank.
- Antle, J.M.** 1983. Infrastructure and aggregate agricultural productivity: international evidence. *Economic Development and Cultural Change*, 31(3): 609–619.
- Arezki, R., Deininger, K. & Selod, H.** 2011. *What drives the global land rush?* IMF Working Papers 11/251. Washington, DC, International Monetary Fund.
- Arslan, A., McCarthy, N., Lipper, L., Asfaw, S. & Cattaneo, A.** 2012 (forthcoming). *Adoption and intensity of adoption of conservation agriculture in Zambia*. ESA Working paper. Rome, FAO.
- Augusto, H.A. & Ribeiro, E.M.** 2006. *O Idoso Rural e os Efeitos das Aposentadorias Rurais nos Domicílios e no Comércio Local: O Caso de Medina, Nordeste de Minas*. Paper presented at the meetings of the Associação Brasileira de

- Estudos Populacionais, Caxambu, Brazil, 18–22 September. (mimeo)
- Ballard, R.** 1987. The political economy of migration: Pakistan, Britain, and the Middle East. In J. Eades, ed. *Migrants, workers and the social order*. London, Tavistock.
- Banerjee, A.V. & Duflo, E.** 2004. *Growth theory through the lens of development economics*. Working Paper 05-01. Cambridge, USA, Massachusetts Institute of Technology.
- Barrett, C.B., Bellemare, M.F. & Hou, J.Y.** 2010. Reconsidering conventional explanations of the inverse productivity-size relationship. *World Development*, 38(1): 88–97.
- Barrientos, A.** 2011. Social transfers and growth: what do we know? What do we need to find out? *World Development*, 40(1):11–20.
- Barrientos, A., Ferreira, M., Gorman, M., Heslop, A., Legido-Quigley, H., Lloyd-Sherlock, P., Møller, V., Saboia, J. & Werneck, M.L.T.** 2003. *Non-contributory pensions and poverty prevention: a comparative study of South Africa and Brazil*. London, HelpAge International and Institute for Development Policy and Management.
- Baxter, J.** 2011. *Understanding land investment deals in Africa. Country report: Mali*. Oakland, CA, USA, The Oakland Institute.
- BBC (British Broadcasting Corporation).** 2012. *Cambodia suspends new land grants for companies*. Online news story, 7 May (available at <http://www.bbc.co.uk/news/world-asia-17980399>).
- Becker, G.** 1983. A theory of competition among pressure groups for political influence. *Quarterly Journal of Economics*, 98(3): 371–400.
- Beintema, N.M. & Elliott, H.** 2011. Setting meaningful investment targets in agricultural research and development: challenges, opportunities and fiscal realities. In P. Conforti, ed. *Looking ahead in world food and agriculture: perspectives to 2050*. Rome, FAO.
- Beintema, N.M. & Stads G.J.** 2008a. *Diversity in agricultural research resources in the Asia–Pacific region*. Bangkok, Asia–Pacific Association of Agricultural Research Institutions (APAARI) and Washington, DC, IFPRI.
- Beintema, N.M. & Stads, G.J.,** 2008b. *Measuring agricultural research investments: a revised global picture*. Agriculture Science and Technology Indicators (ASTI) Background Note. Washington, DC, IFPRI.
- Benin, S., Nin-Pratt, A. & Randriamamonjy, J.** 2007. *Agricultural productivity growth and government spending in sub-Saharan Africa*. Washington, DC, IFPRI. (mimeo)
- Benin, S., Nkonya, E., Okecho, G., Randriamamonjy, J., Kato, E., Lubade, G. & Kyotalimye, M.** 2011. Returns to spending on agricultural extension: the case of the National Agricultural Advisory Services (NAADS) programme of Uganda. *Agricultural Economics*, 42(2): 249–267.
- Berhane, G., Hoddinott, J., Kumar, N. & Taffesse, A.S.** 2011. *The impact of Ethiopia’s productive safety nets and household asset building programme: 2006–2010*. Washington, DC, IFPRI.
- Bezemer, D. & Headey, D.** 2008. Agriculture, development, and urban bias. *World Development*, 36(8): 1342–1364.
- Binswanger, H.P.** 1983. *Growth and employment in rural Thailand*. World Bank Report No. 3906-TH. Washington, DC, World Bank.
- Binswanger, H.P., Khandker, S.R. & Rosenzweig, M.R.** 1993. How infrastructure and financial institutions affect agricultural output and investment in India. *Journal of Development Economics*, 41(2): 337–366. Amsterdam, Elsevier.
- Bioversity, CGIAR Consortium, FAO, IFAD, IFPRI, IICA, OECD, UNCTAD, Coordination Team of UN High Level Task Force on the Food Security Crisis, WFP, World Bank & WTO.** 2012. *Sustainable agricultural productivity growth and bridging the gap for small family farms*. Interagency report to the Mexican G20 Presidency (available at <http://www.fao.org/economic/g20/en/>).
- Birner, R. & Resnick, D.** 2010. The political economy of policies for smallholder agriculture. *World Development*, 38(10): 1442–1452.
- Böber, C.** 2012. *The determinants of farm investment of Nepalese households: a case-study on the relationship between credit access and the variation in productive agricultural capital at the farm level*. Background paper for *The State of Food and Agriculture 2012*. Rome, FAO.
- Boone, R., Covarrubias, K., Davis, B. & Winters, P.** 2012. *Cash transfer programs and agricultural production: the case of Malawi*. Rome, FAO. (mimeo)
- Bouis, H., Graham, R. & Welch, R.** 2000. The CGIAR micronutrients project: justification and objectives. *Food and Nutrition Bulletin*, 21(4): 374–381.
- Buckwell, A.** 2005. *Green accounting for agriculture*. *Journal of Agricultural Economics*, 56(2):187–215.

- Byerlee, D., de Janvry, A. & Sadoulet, E.** 2009. Agriculture for development: toward a new paradigm. *Annual Review of Resource Economics*, 1(1): 15–31.
- Cammack, T., Fowler, M. & Phomdouangsy, C.D.** 2008. *Lao PDR public expenditure study*. Public Expenditures for Pro-Poor Agricultural Growth. Department for International Development (DFID) /World Bank (ARD) Partnership. Draft.
- CDRI (Cambodia Development Resource Institute).** 2011. *Foreign investment in agriculture in Cambodia*. Presented at FAO's Expert Meeting on International Investment in the Agriculture Sector of Developing Countries. Rome, Italy, 22–23 November, 2011.
- Christiaensen, L. & Demery, L.** 2007. *Down to earth: agriculture and poverty reduction in Africa*. Washington, DC, World Bank.
- Christiaensen, L., Demery, L. & Kuhl, J.** 2010. The (evolving) role of agriculture in poverty reduction: an empirical perspective. *Journal of Development Economics*, 96: 239–254.
- Christy, R., Mabaya, E., Wilson, N., Mutambatsere, E. & Mhlang, N.** 2009. Enabling, environments for competitive agro-industries. In C.A. da Silva, D. Baker, A.W. Shepard, C. Jenane and S. Miranda-da-Cruz, eds. *Agro-industries for development*, pp.136–85. Rome, FAO and UNIDO (United Nations Industrial Development Organization).
- Claessens, S.** 2005. *Access to financial services: a review of the issues and public policy objectives*. Policy Research Working Paper Series 3589. Washington, DC, World Bank.
- Coate, S. & Morris, S.** 1999. Policy persistence. *American Economic Review*, 89(5): 1327–1336.
- Cotula, L. & Polack, E.** 2012. *The global land rush: what the evidence reveals about scale and geography*. IIED (International Institute for Environment and Development) Briefing. London, IIED.
- Cotula, L., Vermeulen, S., Leonard, R. & Keeley, J.** 2009. *Land grab or development opportunity? Agricultural investment and international land deals in Africa*. Rome and London, FAO, IFAD and IIED.
- Covarrubias, K., Davis, B. & Winters, P.** 2012. From protection to production: productive impacts of the Malawi social cash transfer scheme. *Journal of Development Effectiveness*, 4(1): 50–77.
- Crego, A., Larson, D., Butzer, R. & Mundlak, Y.** 1997. *A new database on investment and capital for agriculture and manufacturing*. Policy Research Working Paper No. 2013. Washington, DC, World Bank.
- Cuffaro, N. & Hallam, D.** 2011. "Land grabbing" in developing countries: foreign investors, regulation and codes of conduct. Paper presented at the International Conference on Global Land Grabbing. Brighton, UK, 6–8 April 2011.
- da Silva, C.A., Baker, D., Shepard, A.W., Jenane, C. & Miranda-da-Cruz, S.** 2009. *Agro-industries for development*. Rome, FAO and UNIDO.
- Daidone, S. & Anriquez, G.** 2011. *An extended cross-country database for agricultural investment and capital*. ESA Working Paper No. 11–16. Rome, FAO.
- Daley, E. & Park, C.M.** 2011. *The gender and equity implications of land-related investments on labour and income-generating opportunities. A case study of agricultural investments in Northern Tanzania*. Final Report. Rome, FAO.
- Dastagiri, M.B.** 2010. The effect of government expenditure on promoting livestock GDP and reducing rural poverty in India. *Outlook on Agriculture*, 39(2): 127–133.
- Datt, G. & Ravallion, M.** 1998. Farm productivity and rural poverty in India. *Journal of Development Studies*, 34(4): 62–85.
- Davies, G.** 2011. *Farmland as an asset class: the focus of private equity firms in Africa*. Paper presented at the International Conference on Global Land Grabbing. Brighton, UK, 6–8 April 2011.
- Dayal, H. & Karan, A.K.** 2003. *Labour migration from Jharkhand*. New Delhi, Institute for Human Development.
- de Brauw, A. & Rozelle, S.** 2008. Migration and household investment in rural China. *China Economic Review*, 19: 320–335.
- de Haas, H.** 2007. *Migration and development: A theoretical perspective*. International Migration Institute Working Paper No. 9. Oxford, UK, International Migration Institute, University of Oxford.
- de Janvry, A.** 2009. Annex: agriculture for development – implications for agro-industries. In C.A. da Silva, D. Baker, A.W. Shepard, C. Jenane and S. Miranda-da-Cruz, eds. *Agro-industries for development*, pp.252–270. Rome, FAO and UNIDO.
- de la Croix, D. & Delavallade, C.** 2009. Growth, public investment, and corruption with failing institutions. *Economics of Governance*, 10(3): 187–219.
- Deacon, R.T.** 2003. *Dictatorship, democracy, and the provision of public goods*. *Economics*

- Working Paper Series 11925. Santa Barbara, CA, USA, University of Santa Barbara.
- de Gorter, H. & Just, D.** 2010. The social costs and benefits of biofuels: The intersection of environmental, energy and agricultural policy. *Applied Economic Perspectives and Policy*, 32(1): 4–32.
- Deininger, K.** 2011. Challenges posed by the new wave of farmland investment. *The Journal of Peasant Studies*, 38(2): 217–247.
- Deininger, K. & Byerlee, D. (with Lindsay, J., Norton, A., Selod, H. & Stickler, M.)** 2011. *Rising global interest in farmland. Can it yield sustainable and equitable benefits?* Washington, DC, World Bank.
- Delgado, G.C. & Cardoso, J.S., eds.** 2000. *A Universalização de Direitos Sociais no Brasil: A Previdência Rural nos Anos 90.* Brasília, IPEA (The Institute for Applied Economic Research).
- Dercon, S. & Singh, A.** 2012. *Investment in rural Ethiopia 1994–2009: a household perspective.* Background paper for *The State of Food and Agriculture 2012.* Rome, FAO.
- Dercon, S., Gilligan, D.O., Hoddinott, J. & Woldehanna, T.** 2009. The impact of agricultural extension and roads on poverty and consumption growth in fifteen Ethiopian villages. *American Journal of Agricultural Economics*, 91(4): 1007–1021.
- Diakosavvas, D.** 1990. Government expenditure on agriculture and agricultural performance in development countries: an empirical evaluation. *Journal of Agricultural Economics*, 41(3): 381–390.
- Diao, X., Fan, S., Kanyarukiga S. & Yu, B.** 2010. *Agricultural growth and investment options for poverty reduction in Rwanda.* IFPRI Research Monograph, Washington, DC, IFPRI.
- Dias, P.** 2012. *The determinants of household investment: a case-study exploring the relationship between access to credit and investment at the farm level in Nicaragua.* Background paper for *The State of Food and Agriculture 2012.* Rome, FAO.
- Dillon, A., Sharma, M. & Zhang, X.** 2008. *Nepal agriculture public expenditure review.* IFPRI paper prepared for the Department for International Development (DFID), London.
- Dong, X.-Y.** 2000. Public investment, social services and productivity of Chinese household farms. *Journal of Development Studies*, 36(3): 100–122.
- Drayton, B. & Budinich, V.** 2010. A new alliance for global change. *Harvard Business Review*, September (available at <http://hbr.org/2010/09/a-new-alliance-for-global-change/ar/1>).
- Easterling, W.E., Aggarwal, P.K., Batima, P., Brander, K.M., Erda, L., Howden, S.M., Kirilenko, A., Morton, J., Soussana, J.-F., Schmidhuber, J. & Tubiello, F.** 2007. Food, fibre and forest products. In M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden & C.E. Hanson, eds. *Climate change 2007: impacts, adaptation and vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, pp. 273–313. Cambridge, UK, Cambridge University Press.
- Easterly, W. & Rebelo, S.** 1993. Fiscal policy and economic growth: an empirical investigation. *Journal of Monetary Economics*, 32(2): 417–458.
- Eastwood, R., Lipton, M. & Newell, A.** 2010. Farm size. In P. Pingali and R. Evenson, eds. *Handbook of Agricultural Economics*, Vol. 4, pp. 3323–3397. Amsterdam, Elsevier.
- Echeverría, R.G. & Beintema, N.M.** 2009. *Mobilizing financial resources for agricultural research in developing countries: trends and mechanisms.* Global Forum for Agricultural Research (GFAR) Briefing Paper. Rome, GFAR.
- Evenson, R.E.** 2001. Economic impacts of agricultural research and extension. In B. Gardner and G. Rausser, eds. *Handbook of Agricultural Economics*, Vol. 1A, Chapter 11. Amsterdam, Elsevier.
- Evenson, R.E. & Gollin, D.** 2007. Contributions of national agricultural research systems to crop productivity. In R.E. Evenson, and P. Pingali, eds. *Handbook of agricultural economics*, Vol. 3, pp. 2420–2458. Amsterdam, Elsevier.
- Evenson, R.E. & Fuglie, K.O.** 2009. *Technology capital: the price of admission to the growth club.* Paper submission No 51398 at Conference for International Association of Agricultural Economists, Beijing, China, 16–22 August 2009.
- Fan, S. & Rao, N.** 2003. *Public spending in developing countries: Trends, determination, and impact.* EPTD Discussion Paper No. 99. Washington, DC, IFPRI.
- Fan, S. & Saurkar, A.** 2006. *Public spending in developing countries: trends, determination and impact* (mimeo).
- Fan, S. & Zhang, X.** 2008. Public expenditure, growth and poverty reduction in rural Uganda. *African Development Review*, 20(3): 466–496.
- Fan, S., Gulati, A. & Thorat, S.** 2008. Investment, subsidies, and pro-poor growth in rural India. *Agricultural Economics*, 39(2): 163–170.
- Fan, S., Hazell, P. & Haque, T.** 2000. Targeting public investments by agro-ecological zone to

- achieve growth and poverty alleviation goals in rural India. *Food Policy*, 25(4): 411–428.
- Fan, S., Hazell, P. & Thorat, S.** 2000. Government spending, agricultural growth and poverty in rural India. *American Journal of Agricultural Economics* 82(4): 1038–1051.
- Fan, S., Yu, B. & Jitsuchon, S.** 2008. Does allocation of public spending matter in poverty reduction? Evidence from Thailand. *Asian Economic Journal*, 22(4): 411–430.
- Fan, S., Zhang, L. & Zhang, X.** 2004. Reforms, investment and poverty in rural China. *Economic Development and Cultural Change*, 52(2): 395–421.
- FAO.** 1947. *The State of Food and Agriculture 1947*. Rome.
- FAO.** 1949. *The State of Food and Agriculture 1949. A survey of world conditions and prospects*. Rome.
- FAO.** 2007. *The State of Food and Agriculture 2007. Paying farmers for environmental services*. Rome.
- FAO.** 2009a. *Food security and agricultural mitigation in developing countries: options for capturing synergies*. Rome.
- FAO.** 2009b. *The State of Food Insecurity in the World 2009. Economic crisis: impacts and lessons learned*. Rome.
- FAO.** 2010a. *“Climate-smart” agriculture: policies, practices and financing for food security, adaptation and mitigation*. Rome.
- FAO.** 2010b. Rural Income Generating Activities (RIGA) database (available at <http://www.fao.org/economic/riga/en/>).
- FAO.** 2011a. *Save and grow: a policy-maker’s guide to the sustainable intensification of smallholder crop production*. Rome.
- FAO.** 2011b. *Food outlook: global market analysis*, November. Rome.
- FAO.** 2011c. Mapping actions for food security and nutrition (MAFSAN) web platform (available at www.mafsan.org).
- FAO.** 2011d. *The State of Food and Agriculture 2010–11. Women in agriculture: closing the gender gap*. Rome.
- FAO.** 2011e. *Land tenure and international investments in agriculture*. A report by the High Level Panel of Experts on Food Security and Nutrition of the Committee on World Food Security. Rome.
- FAO.** 2011f. *Report on expert meeting on international investment in the agriculture sector of developing countries*. Rome, Italy, 22–23 November.
- FAO.** 2011g. RAI Knowledge Platform: RAI Overview (available at <http://www.responsibleagroinvestment.org/rai/node/232>).
- FAO.** 2011h. *The State of the World’s Land and Water Resources for Food and Agriculture. Managing systems at risk*, FAO Conference document C2011/32. Thirty-seventh Session. Rome, 25 June–2 July (available at: www.fao.org/nr/solaw/solaw-home/en/).
- FAO.** 2011i. *Global food losses and food waste, extent, causes and prevention*, by J. Gustavsson, C. Cederberg, U. Sonesson (Swedish Institute for Food, and Biotechnology) and R. van Otterdijk and A. Meybeck (FAO). Rome.
- FAO.** 2012a. FAOSTAT statistical database (available at faostat.fao.org).
- FAO.** 2012b. *Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests in the Context of National Food Security*. Rome.
- FAO.** 2012c. *Identifying opportunities for climate-smart agriculture investments in Africa*. (available at: <http://www.fao.org/docrep/015/an112e/an112e00.pdf>).
- FAO.** 2012d. *Trends and impacts of foreign investment in developing country agriculture: evidence from case studies*, Rome.
- FAO, IFAD & WFP.** 2012. *The State of Food Insecurity in the World 2012. Economic growth is necessary but not sufficient to accelerate reduction of hunger and malnutrition*. Rome. FAO.
- FAO, IFAD, UNCTAD & World Bank.** 2012. *Principles for Responsible Agricultural Investment that Respects Rights, Livelihoods and Resources*. Synoptic version (available at http://www.fao.org/fileadmin/templates/est/INTERNATIONAL-TRADE/FDIs/RAI_Principles_Synoptic.pdf).
- Fernandez, R. & Rodrik, D.** 1991. Resistance to reform: status quo bias in the presence of individual-specific uncertainty. *American Economic Review*, 81(5): 1146–1155.
- Ferroni, M. & Castle, P.** 2011. Public-private partnerships and sustainable agricultural development. *Sustainability*, 2011(3):1064–1073.
- FIAN (FoodFirst Information and Action Network).** 2010. *Stop land grabbing now!* Online publication (available at <http://www.fian.org/resources/documents/others/stop-land-grabbing-now/pdf>).
- Fischer, R.A., Byerlee, D. & Edmeades, G.O.** 2009. *Can technology deliver on the yield challenge to 2050?* Paper prepared for the Expert

- Meeting on How to Feed the World in 2050, organized by FAO, Rome, Italy, 24–26 June 2009.
- Foster, A. & Rosenzweig, M.** 2004. Agricultural productivity growth, rural economic diversity, and economic reforms: India, 1970–2000. *Economic Development and Cultural Change*, 52(3): 509–542.
- Friis, C. & Reenberg, A.** 2010. *Land grab in Africa: emerging land system drivers in a teleconnected world*. São José dos Campos, Brazil, GLP (The Global Land Project).
- Fuglie, K.O.** 2010. Sources of growth in Indonesian agriculture. *Journal of Productivity Analysis*, 33: 225–240.
- Fuglie, K.O.** 2012. Productivity growth and technology capital in the global agricultural economy. In K.O. Fuglie, S.L. Wang, & V.E. Ball, eds. *Productivity growth in agriculture: an international perspective*. Wallingford, UK, CAB International.
- G8 (Group of Eight).** 2009. *G8 Leaders Declaration: Responsible Leadership for a Sustainable Future*. Thirty-fifth G8 Summit, L'Aquila, Italy, 8–10 July 2009 (available at http://www.g8italia2009.it/static/G8_Allegato/G8_Declaration_08_07_09_final%2c0.pdf).
- GEF (Global Environment Facility).** 2012. *What is the GEF*. GEF website (available at <http://www.thegef.org/gef/whatisgef>).
- Gertler, P., Martinez, S. & Rubio-Codina, M.** 2012. Investing cash transfers to raise long-term living standards. *American Economic Journal: Applied Economics*, 4(1): 164–192.
- Gilligan, D., Hoddinott J. & Taffesse, A.** 2009. The impact of Ethiopia's productive safety net program and its linkages. *Journal of Development Studies*, 45(10): 1684–1706.
- Gonzalez-Velosa, C.** 2011. *The effects of emigration and remittances on agriculture: evidence from the Philippines*. Job market paper (available at ftp://ftp.cemfi.es/pdf/papers/wshop/JMP_Gonzalezvelosa_JAN.pdf).
- Görgen, M., Rudloff, B., Simons, J., Üllenberg, A., Váth, S. & Wimmer, L.** 2009. *Foreign direct investment (FDI) in land in developing countries*. Eschborn, Germany, Gesellschaft für Technische Zusammenarbeit (GTZ).
- Government of Rwanda.** 2009. *Agriculture Sector Investment Plan 2009–2012*. Rwanda, Ministry of Agriculture and Animal Resources.
- Hallam, D.** 2010. International investment in developing country agriculture: issues and challenges, *Agriregionieuropa*, No. 20, March.
- Hayami, Y. & Ruttan, V.W.** 1970. Agricultural productivity differences among countries. *American Economic Review*, 60(5): 895–911.
- Hazell, P. & Haddad, L.** 2001. *Agricultural research and poverty reduction*. Food, Agriculture and the Environment Discussion Paper 34. Washington, DC, IFPRI.
- Herbel, D., Crowley, E., Ourabah Haddad, N. & Lee, M.** 2012. *Good practices in building innovative rural institutions to increase food security*. Rome, FAO and IFAD.
- Hoddinott, J.** 2008. *Social safety nets and productivity enhancing investments in agriculture*. Paper presented at the conference "Convergence between Social Service Provision and Productivity Enhancing Investments in Development Strategies", Durban, South Africa, January 29–31. Washington, DC, IFPRI.
- Hoff, K. & Stiglitz, J.E.** 1997. Moneylenders and bankers: price-increasing subsidies in a monopolistically competitive market. *Journal of Development Economics*, 52(2): 429–462.
- Horne, F.** 2011. *Understanding land investment deals in Africa. Country report: Ethiopia*. Oakland, CA, USA, The Oakland Institute.
- Huang, J. & Ma, H.** 2010. *Capital formation and agriculture development in China*. Rome, FAO.
- IFPRI (International Food Policy Research Institute).** 2009. *Food security under stress from price volatility, agricultural neglect, climate change, and recession*. Presentation for the IPC Spring Seminar, Salzburg, Austria, 11 May.
- IFPRI.** 2010. Statistics of Public Expenditure for Economic Development (SPEED). Online database (available at <http://www.ifpri.org/book-39/ourwork/programs/priorities-public-investment/speed-database>).
- IFPRI.** 2012a ASTI database (available at <http://www.asti.cgiar.org/data/>).
- IFPRI.** 2012b. Statistics of Public Expenditure for Economic Development (SPEED) database. Unpublished.
- IMF (International Monetary Fund).** 2001. *Government Finance Statistics Manual*. Washington, DC.
- INTOSAI (International Organization of Supreme Audit Institutions) Working Group on Environmental Accounting.** 2010. *Environmental accounting: current status and options for SAs*. (also available at <http://www.environmental-auditing.org/LinkClick.aspx?fileticket=s%2FFCvUz5Ksk%3D&tabid=128&mid=568>)
- IPCC (Intergovernmental Panel on Climate Change).** 2012. *Managing the risks of extreme*

- events and disasters to advance climate change adaptation. A Special Report of Working Groups I and II of the Intergovernmental Panel on Climate Change, edited by C.B. Field, V. Barros, T.F. Stocker, D. Qin, D.J. Dokken, K.L. Ebi, M.D. Mastrandrea, K.J. Mach, G.-K. Plattner, S.K. Allen, M. Tignor & P.M. Midgley. Cambridge, UK, and New York, USA, Cambridge University Press.
- Jacoby, H.G.** 2000. Access to markets and the benefits of rural roads. *The Economic Journal*, 110(465): 713–737.
- Jha, R.** 2007. *Investment and subsidies in Indian agriculture*. ASARC Working Paper 2007/03. Canberra, ACT, Australia, Australia South Asia Research Centre.
- Kessides, C.** 1993. *The contributions of infrastructure to economic development, a review of experience and policy implications*. World Bank Discussion Paper 213. Washington, DC, World Bank.
- Key, N. & Roberts, M. J.** 2007a. *Commodity payments, farm business survival, and farm size growth*. Economic Research Report No. 51. Washington, DC, United States Department of Agriculture (USDA).
- Key, N. & Roberts, M.J.** 2007b. Measures of trends in farm size tell differing stories. *AmberWaves*, 5(5):36–37.
- Kolavalli, S., Birner, R., Benin, S., Horowitz, L., Babu, S., Asenso-Okyere, K., Thompson, N.M. & Poku, J.** 2010. *Institutional and public expenditure review of Ghana's Ministry of Food and Agriculture*. IFPRI Discussion Paper 1020. Washington, DC, IFPRI.
- Krueger, A., Schiff, M. & Valdés, A.** 1988. Agricultural incentives in developing countries: measuring the effects of sectoral and economywide policies. *World Bank Economic Review*, 2(3): 255–272.
- Krueger, A., Schiff, M. & Valdés, A.** 1991. *The Political Economy of Agricultural Pricing Policy*, Vol. 1: Latin America, Vol. 2: Asia, and Vol. 3: Africa and the Mediterranean. Baltimore, USA, Johns Hopkins University Press for the World Bank.
- Larson, D.F., Anderson J.R. & Varangis, P.** 2004. Policies on managing risk in agricultural markets. *World Bank Research Observer*, 19(2):199–230.
- Larson, D.F., Butzer, R., Mundlak, Y. & Crego, A.** 2000. A cross-country database for sector investment and capital. *The World Bank Economic Review*, 14(2): 371–391.
- Lee, D.** 2011. *Accounting for natural resources and environmental goods and services in agricultural investment decisions: review and assessment*. Background paper prepared for *The State of Food and Agriculture 2012*. Rome, FAO.
- Lin, J.Y.** 1992. Rural reforms and agricultural growth in China. *American Economic Review*, 82(1): 34–51.
- Lipper, L. & Neves, N.** 2011. *Payments for environmental services: what role in sustainable agricultural development?* ESA working paper No. 11–20. Rome, FAO.
- Lipton, M.** 1977. *Why poor people stay poor: urban bias in world development*. Cambridge, Harvard University Press.
- López, R. & Galinato, G.I.** 2006. Should governments stop subsidies to private goods? Evidence from rural Latin America. *Journal of Public Economics*, 91 (2007): 1071–1094.
- Lowder, S. & Carisma, B.** 2011. *Financial resource flows to agriculture: a review of data on government spending, official development assistance and foreign direct investment*. ESA Working Paper No. 11–18, Rome, FAO.
- Lowder, S., Carisma, B. & Skoet, J.** 2012. *Who invests in agriculture and how much? An empirical review of the relative size of various investments in agriculture in low- and middle-income countries*. ESA Working Paper No. 12–09, Rome, FAO.
- Lucas, R.E.B.** 1987. Emigration to South Africa's mines. *American Economic Review*, 77(3): 313–330.
- Government of Malawi, Ministry of Agriculture, Irrigation and Water Development.** 2012. *Approaches to the implementation of conservation agriculture among promoters in Malawi. Baseline study* (available at <http://www.moafsmw.org/ocean/docs/Research/Approaches%20to%20the%20Implementation%20of%20CA%20among%20Promoters%20in%20Malawi-FINAL%208%20May%202012.pdf>).
- Maluccio, J.** 2005. *Coping with the "coffee crisis" in Central America. The role of the Nicaraguan Red de Protección Social*. Discussion Paper 188. Washington, DC, IFPRI.
- Maluccio, J.** 2010. The impact of conditional cash transfers on consumption and investment in Nicaragua. *The Journal of Development Studies*, 46(1): 14–38.
- Mansuri, G.** 2007. *Credit layering in informal financial markets*. *Journal of Development Economics*, 84(2):715–730.

- McCarthy, N., Lipper, L. & Branca, G.** 2011. *Climate-smart agriculture: smallholder adoption and implications for climate change adaptation and mitigation*. Mitigation in Agriculture Series No. 4. Rome, FAO.
- McMillan, J., Whalley J. & Zhu, L.** 1989. The impact of China's economic reforms on agricultural productivity growth. *Journal of Political Economy*, 97(4): 781–807.
- McNellis, P.E.** 2009. *Foreign direct investments in developing country agriculture: the emerging role of private sector finance*. FAO Commodity and Trade Policy Research Working Paper No. 28. Rome, FAO.
- Mendola, M.** 2008. Migration and technological change in rural households: complements or substitutes? *Journal of Development Economics*, 85(1–2): 150–175.
- Meyer, Richard L.** 2011. *Subsidies as an instrument in agricultural development finance: review*. Joint Discussion Paper of the Joint Donor CABFIN Initiative. Washington, DC, World Bank.
- Millennium Ecosystem Assessment.** 2005. *Ecosystems and human well-being: synthesis*. Washington, DC, Island Press.
- Miller, C. & Jones, L.** 2010. *Agricultural value chain finance: tools and lessons*. Rome, FAO and Rugby, UK, Practical Action Publishing.
- Miller, C., Richter, S., McNellis, P. & Mhlanga, N.** 2010. *Agricultural investment funds for developing countries*. Rome, FAO.
- Miluka, J., Carletto, G., Davis, B. & Zezza, A.** 2007. *The vanishing farms? The impact of international migration on Albanian family farming*. ESA Working Paper No. 07-09. Rome, FAO.
- Mogues, T.** 2011. **The bang for the birr: public expenditures and rural welfare in Ethiopia.** *Journal of Development Studies*, 47(5): 735–752.
- Mogues, T.** 2012. What determines public expenditure allocations? A review of theories, and implications for agricultural public investments. ESA Working Paper No. 12-06, Rome, FAO.
- Mogues, T., Yu, B., Fan, S. & L. McBride.** 2012 (forthcoming). *The impacts of public investments in and for agriculture: synthesis of the existing evidence*. ESA Working Paper No. 12-07, Rome, FAO.
- Møller, V. & Ferreira, M.** 2003. *Getting by... benefits of non-contributory pension income for older South African households*. University of Cape Town, South Africa, Institute for Ageing in Africa. (mimeo)
- Morris, J., Williams, A.G. & Audsley, E.** 2007. Greening the lilies – environmental accounting for agriculture. *Journal of the Royal Agricultural Society of England*, 168: 1–10.
- Mu, R. & van de Walle, D.** 2007. *Rural roads and local market development in Vietnam*. Policy Research Working Paper 4340. Washington, DC, World Bank.
- Mundlak, Y., Larson, D. F. & Butzer, R.** 2004. *The determinants of agricultural production: a cross-country analysis*. Policy Research Working paper 1827. Washington, DC, World Bank.
- Nagayets, O.** 2005. *Small farms: current status and key trends*. Information brief prepared for the Future of Small farms Research Workshop, Wye College, Kent, UK, 26–29 June 2005.
- Nelson, G.C., Rosegrant, M.W., Koo, J., Robertson, R., Sulser, T., Zhu, T., Ringler, C., Msangi, S., Palazzo, A., Batka, M., Magalhaes, M., Valmonte-Santos, R., Ewing, M. & Lee, D.** 2009. *Climate change: impacts on agriculture and costs of adaptation*. Washington, DC, IFPRI.
- NEPAD (The New Partnership for Africa's Development).** 2010a. Global Donor Platform NEPAD pillar documents (available at <http://www.nepad-caadp.net>).
- NEPAD.** 2010b. *Implementing CAADP for Africa's Food Security needs: a progress report on selected activities*. Midrand, South Africa (also available at <http://www.nepad-caadp.net/pdf/Final%20CAADP%20MAF%20Validation%20Report.pdf>).
- NEPAD.** 2010c. *The Comprehensive Africa Agriculture Development Programme (CAADP) in practice: highlighting the successes*. Midrand, South Africa (also available at <http://www.nepad-caadp.net/pdf/Highlighting%20the%20successes%20280611%20v3%200%20web.pdf>).
- Oberai, A. & Singh, H.K.M.** 1983. *Causes and consequences of internal migration*. Delhi, Oxford University Press.
- OECD (Organisation for Economic Co-operation and Development).** 2010. Working Group on Economic Aspects of Biodiversity (WGEAB). *OECD Expert Workshop on Enhancing the Cost-effectiveness of Payment for Ecosystem Services (PES) Summary record*. Paris.
- OECD.** 2011. *Policy framework for investment in agriculture: policy guidance for promoting private investment in agriculture in Africa*. Preliminary version. Paris.
- OECD.** 2012a. Credit Reporting System Aid Activities (CRS) database (available at <http://stats.oecd.org/Index.aspx?datasetcode=CRS1>).

- OECD. 2012b. *Environmental Outlook to 2050*. OECD, Paris.
- OECD-FAO. 2012. *OECD-FAO Agricultural Outlook: 2012–2021*. Paris, OECD and Rome, FAO.
- Olson, M. 1965. *The logic of collective action*. New Haven, USA, Yale University Press.
- Olson, M. 1985. Space, agriculture and organisation. *American Journal of Agricultural Economics*, 67(5): 928–937.
- Omuru, E. & Kingwell, R. 2006. Funding and managing agricultural research in a developing country: a Papua New Guinea case study. *International Journal of Social Economics*, 33(4): 316–330.
- Otsuka, K., Estudillo, J.P. & Sawada, Y. 2009. *Rural poverty and income dynamics in Asia and Africa*. London, Routledge.
- Palmer-Jones, R. & Sen, K. 2003. What has luck got to do with it? A regional analysis of poverty and agricultural growth in rural India. *Journal of Development Studies*, 40(1): 1–31.
- Pray, C.E., Fuglie, K.O. & Johnson, D. 2007. Private agricultural research. In R.E. Evenson & P. Pingali, eds. *Handbook of agricultural economics*, Vol. 3, pp. 2605–2633. Amsterdam, Elsevier.
- Pretty, J.N., Noble, D., Bossio, J., Dixon, R.E., Hine, F.W., Penning de Vries, T. & Morison, J.I.L. 2006. Resource-conserving agriculture increases yields in developing countries. *Environmental Science and Technology*, 40: 4.
- Pritchett, L. 1996. *Mind your P's and Q's. The cost of public investment is not the value of public capital*. World Bank Policy Research Working Paper 1660. Washington, DC, World Bank.
- Rajkumar, A.S. & Swaroop, V. 2008. Public spending and outcomes: does governance matter? *Journal of Development Economics*, 86: 96–111.
- Rapsomanikis, G. & Vezzani, A. 2012 (forthcoming). *Lagging behind. An investigation on the dynamics of agricultural labour productivity*. ESA working paper series. Rome, FAO.
- Ravallion, M. & Chen, S. 2004. *China's (uneven) progress against poverty*. World Bank Policy Research Working Paper 3408. Washington, DC, World Bank.
- ReSAKSS (Regional Strategic Analysis and Knowledge Support System). 2011. Africa wide CAADP targets data (available at <http://www.resakss.org/>).
- Resnick, D. & Birner, R. 2006. *Does good governance contribute to pro-poor growth? A review of the evidence from cross-country studies*. DSDG Discussion Paper No. 30. Washington, DC, IFPRI.
- Rosegrant, M., Kasryno, F. & Perez, N.D. 1998. Output response to prices and public investment in agriculture: Indonesian food crops. *Perez Journal of Development Economics*, 55(2): 333–352.
- Ruben, R. & Pender, J. 2004. Rural diversity and heterogeneity in less-favoured areas: the quest for policy targeting. *Food Policy*, 29(4): 303–320.
- Sabates-Wheeler, R. & Devereux S. 2010. Cash transfers and high food prices: explaining outcomes on Ethiopia's productive safety net programme. *Food Policy*, 35(4): 274–285.
- Schiff, M. & Valdés, A. 2002. Agriculture and the macroeconomy, with emphasis on developing countries. In B. Gardner & G. Rausser, eds. *Handbook of Agricultural Economics*, Vol. 2A, pp. 1421–1454. Amsterdam, Elsevier.
- Schmidhuber, J. & Bruinsma, J. 2011. Investing towards a world free of hunger: lowering vulnerability and enhancing resilience. In A. Prakash, ed. *Safeguarding food security in volatile global markets*. Rome, FAO.
- Schmidhuber, J., Bruinsma, J. & Boedeker, G. 2009. *Capital requirements for agriculture in developing countries to 2050*. Paper presented at the FAO Expert Meeting on "How to Feed the World in 2050", Rome, FAO, 24–26 June 2009.
- Schwarzer, H. 2000. *Impactos socio-econômicos do sistema de aposentadorias rurais no Brasil: evidências empíricas de um estado de caso no estado do Pará*. Institute for Applied Economic Research (IPEA) Texto para Discussão 729. Rio de Janeiro, Brazil, IPEA.
- Sen, B. 2003. Drivers of escape and descent: changing household fortunes in rural Bangladesh. *World Development*, 31(3): 513–534.
- Short, C., Barreiro-Hurlé, J. & Balié, J. 2012. *Analysis of price incentives and disincentives for maize in 10 African countries*. MAFAP Technical Notes. Rome, FAO.
- Skees, J. R. 2008. Challenges for use of index-based weather insurance in lower income countries. *Agricultural Finance Review*, 68(1): 197–217.
- Spielman, D.J., Hartwich, F. & von Grebmer, K. 2007. *Sharing science, building bridges, and enhancing impact: public-private partnerships in the CGIAR*. IFPRI Discussion Paper 708. Washington, DC, IFPRI.
- Suphannachart, W. & Warr, P. 2011. Research and productivity in Thai agriculture. *Australian*

- Journal of Agricultural and Resource Economics*, 55(1): 35–52.
- Suryahadi, A., Suryadarma, D. & Sumarto, S.** 2009. The effects of location and sectoral components of economic growth on poverty: evidence from Indonesia. *Journal of Development Economics*, 89(1): 109–117.
- Thorbecke, E. & Jung, H.-S.** 1996. A multiplier decomposition method to analyse poverty alleviation. *Journal of Development Economics*, 48(2): 279–300.
- Transnational Institute.** 2011. *It is time to outlaw landgrabbing, not to make it "responsible"!* (available at <http://www.tni.org/sites/www.tni.org/files/RAI-EN-1.pdf>).
- Tsegai, D.** 2004. *Effects of migration on the source communities in the Volta Basin of Ghana: potential links of migration, remittances, farm and non-farm self-employment activities.* Economics and Technological Change Working Paper. Bonn, Germany, University of Bonn.
- UNCTAD (United Nations Conference on Trade and Development).** 2011. Internal data not publicly available at the country level.
- van der Mensbrugghe, D.** 2005. *Linkage technical reference document, version 6.0.* Prepared by Development Prospects Group (DECPG). Washington, DC, World Bank.
- Vermeulen, S. & Cotula, L.** 2010. *Making the most of agricultural investment: a survey of business models that provide opportunities for smallholders.* Geneva, Switzerland, FAO and IIED.
- Visser, O. & Spoor, M.** 2011. Land grabbing in the post-Soviet region [in Russian]. In A. Nikulin & T. Shanin, eds. *Krestyanovedenie: the study of peasantry.* Moscow, Rospen / MSSES.
- von Braun, J. & Meinzen-Dick, R.S.** 2009. "Land grabbing" by foreign investors in developing countries: risks and opportunities. Policy Brief 13. Washington, DC, IFPRI.
- von Braun, J., Gulati, A. & Fan, S.** 2005. *Agricultural and economic development strategies and the transformation of China and India.* Washington, DC, IFPRI.
- Vorley, B. & Proctor, F.** 2008. *Inclusive business in agrifood markets: evidence and action.* A report based on proceedings of an international conference held in Beijing, China, 5–6 March (available at <http://www.regoverningmarkets.org/en/filemanager/active?fid=>).
- Wall Street Journal.** 2010. *Private sector interest grows in African farming* (available at <http://online.wsj.com/article/SB10001424052702303467004575574152965709226.html>).
- Warner, M., Kahan, D. & Lehel, S.** 2008. *Market-oriented agricultural infrastructure: appraisal of public-private partnerships.* Agricultural Management, Marketing and Finance Occasional Paper 23. Rome, FAO.
- Wiggins, S. & Brooks, J.** 2010. *The use of input subsidies in developing countries.* Paper presented at the Global Forum on Agriculture, OECD, Paris, 29–30 November, 2010.
- World Bank.** 2004. *World Development Report 2005. A better investment climate for everyone.* Washington, DC.
- World Bank.** 2006a. *Where is the wealth of nations? Measuring capital for the 21st century.* Washington, DC.
- World Bank.** 2006b. *The rural investment climate: it differs and it matters.* Agriculture and Rural Development Department Report No. 36543-GLB. Washington, DC.
- World Bank.** 2007a. *World Development Report 2008. Agriculture for development.* Washington, DC.
- World Bank.** 2007b. *Philippines: agriculture public expenditure review.* Technical working paper 40493. Washington, DC.
- World Bank.** 2008. *Nigeria: agriculture public expenditure review.* Report No. 44000-NG. Washington, DC.
- World Bank.** 2010a. *Uganda: agriculture public expenditure review.* Report No. 53704-UG. Washington, DC, World Bank.
- World Bank.** 2010b. *World Development Indicators* (available at <http://data.worldbank.org/data-catalog/world-development-indicators/wdi-2010>; accessed 5 July 2011).
- World Bank.** 2011a. *Mozambique: analysis of public expenditure in agriculture.* World Bank Report No. 59918-MZ. Washington, DC.
- World Bank.** 2011b. *United Republic of Tanzania public expenditure review.* Report No. 64585-TZ. Washington, DC.
- World Bank.** 2011c. *World Bank Governance Indicators* (available at <http://databank.worldbank.org>).
- World Bank.** 2011d. *Doing business database* (available at <http://www.doingbusiness.org/data>).
- World Bank.** 2011e. *Practitioners toolkit for agriculture public expenditure analysis.* Washington, DC/World Bank and UK Department for International Development.
- World Bank.** 2012. *World Development Indicators* (available at <http://databank.worldbank.org>).

- Wunder, S., Engel, S. & Pagiola, S.** 2008. Taking stock: a comparative analysis of payments for environmental services programs in developed and developing countries. *Ecological Economics*, 65(4): 834–852.
- Xu, Z., Burke, W.J., Jayne T.S. & Govereh, J.** 2009. Do input subsidy programs ‘crowd in’ or ‘crowd out’ commercial market development? Modeling fertilizer demand in a two-channel marketing system. *Agricultural Economics*, 40(1): 79–94.
- Zhang, X.** 2004. *Security is like oxygen: evidence from Uganda*. DSDG Discussion Paper No. 6. Washington, DC, IFPRI.
- Zhang, X., Fan, S., Zhang, L. & Huang, J.** 2004. Local governance and public goods provision in rural China. *Journal of Public Economics*, 88(12): 2857–2851.
- Zimmermann, R., Bruntrup, M., Kolavalli, S. & Flaherty, K.** 2009. *Agricultural policies in sub-Saharan Africa: understanding CAADP and APRM policy processes*. Study 48. Bonn, Germany, The German Development Institute (DEI).

Special chapters of *The State of Food and Agriculture*

In addition to the usual review of the recent world food and agricultural situation, each issue of this report since 1957 has included one or more special studies on problems of longer-term interest. Special chapters in earlier issues have covered the following subjects:

- 1957** Factors influencing the trend of food consumption
Postwar changes in some institutional factors affecting agriculture
- 1958** Food and agricultural developments in Africa south of the Sahara
The growth of forest industries and their impact on the world's forests
- 1959** Agricultural incomes and levels of living in countries at different stages of economic development
Some general problems of agricultural development in less-developed countries in the light of postwar experience
- 1960** Programming for agricultural development
- 1961** Land reform and institutional change
Agricultural extension, education and research in Africa, Asia and Latin America
- 1962** The role of forest industries in the attack on economic underdevelopment
The livestock industry in less-developed countries
- 1963** Basic factors affecting the growth of productivity in agriculture
Fertilizer use: spearhead of agricultural development
- 1964** Protein nutrition: needs and prospects
Synthetics and their effects on agricultural trade
- 1966** Agriculture and industrialization
Rice in the world food economy
- 1967** Incentives and disincentives for farmers in developing countries
The management of fishery resources
- 1968** Raising agricultural productivity in developing countries through technological improvement
Improved storage and its contribution to world food supplies
- 1969** Agricultural marketing improvement programmes:
some lessons from recent experience
Modernizing institutions to promote forestry development
- 1970** Agriculture at the threshold of the Second Development Decade
- 1971** Water pollution and its effects on living aquatic resources and fisheries
- 1972** Education and training for development
Accelerating agricultural research in the developing countries
- 1973** Agricultural employment in developing countries
- 1974** Population, food supply and agricultural development
- 1975** The Second United Nations Development Decade:
mid-term review and appraisal
- 1976** Energy and agriculture
- 1977** The state of natural resources and the human environment for food and agriculture
- 1978** Problems and strategies in developing regions
- 1979** Forestry and rural development
- 1980** Marine fisheries in the new era of national jurisdiction
- 1981** Rural poverty in developing countries and means of poverty alleviation
- 1982** Livestock production: a world perspective
- 1983** Women in developing agriculture
- 1984** Urbanization, agriculture and food systems

- 1985** Energy use in agricultural production
Environmental trends in food and agriculture
Agricultural marketing and development
- 1986** Financing agricultural development
- 1987–88** Changing priorities for agricultural science and technology
in developing countries
- 1989** Sustainable development and natural resource management
- 1990** Structural adjustment and agriculture
- 1991** Agricultural policies and issues: lessons from the 1980s and prospects
for the 1990s
- 1992** Marine fisheries and the law of the sea: a decade of change
- 1993** Water policies and agriculture
- 1994** Forest development and policy dilemmas
- 1995** Agricultural trade: entering a new era?
- 1996** Food security: some macroeconomic dimensions
- 1997** The agroprocessing industry and economic development
- 1998** Rural non-farm income in developing countries
- 2000** World food and agriculture: lessons from the past 50 years
- 2001** Economic impacts of transboundary plant pests and animal diseases
- 2002** Agriculture and global public goods ten years after the Earth Summit
- 2003–04** Agricultural biotechnology: meeting the needs of the poor?
- 2005** Agriculture trade and poverty: can trade work for the poor?
- 2006** Food aid for food security?
- 2007** Paying farmers for environmental services
- 2008** Biofuels: prospects, risks and opportunities
- 2009** Livestock in the balance
- 2010–11** Women in agriculture: closing the gender gap for development

THE STATE OF FOOD AND AGRICULTURE

2012

Investing in agriculture is essential for reducing hunger and promoting sustainable agricultural production. Those parts of the world where agricultural capital per worker and public investments in agriculture have stagnated are the epicentres of poverty and hunger today. Demand growth over the coming decades will place increasing pressure on the natural resource base. Eradicating hunger sustainably will require a significant increase in agricultural investments, but also an improvement in their effectiveness. Farmers are the largest investors in developing country agriculture and must be central to any strategy for increasing investment in the sector, but if they are to invest more in agriculture they need a favourable climate for agricultural investment based on economic incentives and an enabling environment. Governments also have a special responsibility to help smallholders overcome the constraints they face in expanding their productive assets and to ensure that large-scale investments in agriculture are socially beneficial and environmentally sustainable. Government investment in agriculture is a crucial component of providing an enabling environment for private investments in the sector. Governments need to channel scarce public funds towards the provision of essential public goods with high economic and social returns.

ISBN 978-92-5-107317-9 ISSN 0081-4539



9 789251 073179

I3028E/1/11.12