Pathways out of Rural Poverty in Developing Countries

Mini-course given at the Graduate Program in Applied Economics, Federal University of Viçosa (UFV) August, 2010

by

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Course Description

This course examines issues and techniques related to the study of rural poverty in developing countries. The course begins by providing a framework for thinking about pathways out of rural poverty in developing countries, and reviews some of the empirical evidence for Brazil. The second and third days of the course address issues related to agricultural employment and income, and non-agricultural employment and income. The fourth day examines international experiences with land reform and conditional cash transfer programs. A primary goal of the course is to expose Brazilian Ph.D. students to the international literature on rural poverty, and to use this literature as a context for identifying research questions, appropriate methods, and data sources for Ph.D. dissertations about rural poverty in Brazil.

Outline

- Day 1. Pathways out of rural poverty: Overview, issues, and evidence from Brazil
 - 1. Pathways out of rural poverty: A framework
 - a) Poverty and agricultural income
 - b) Poverty and non-agricultural income
 - c) Anti-poverty policies: conditional cash transfers
 - d) Exit: rural poverty and migration
 - 2. Methodological issues
 - a) Poverty concepts: FGT, income vs consumption, multi-dimensional
 - b) Poverty across space: micro area estimation
 - c) Poverty over time: decompositions and initial conditions
 - d) Poverty dynamics: chronic vs transitory poverty
 - e) Identification, counterfactuals, and causality
- Day 2: The agricultural pathway
 - 1. Price policy and measure of protection
 - 2. Transactions costs and use of the market
 - 3. Productivity in agriculture
 - 4. Land reform and assets
- Day 3: The non-agricultural pathway
 - 1. RNAE and poverty
 - 2. RNAE and geography
 - 3. RNAE and dynamics
- Day 4: Asset transfers (land reform) and cash transfers (CCTs): The international experience
 - 1. Land reform
 - 2. CCTs

1. Agricultural Issues in Developing Countries

- Binswanger, H. P and Klaus Deininger. 1997. "Explaining Agricultural and Agrarian Policies in Developing Countries," *Journal of Economic Literature*, 35:1958-2005.
- de Janvry, Alain, and Elisabeth Sadoulet. 2000. "Rural Poverty in Latin America: Determinants and Exit Paths," *Food Policy* 25: 389-409.
- Hoff, Karla, Avishay Braverman, and Joseph E. Stiglitz. 1993. "Introduction" in *The Economics of Rural Organization: Theory, Practice and Policy*, edited by Hoff, Braverman, and Stiglitz, New York: Oxford University Press.
- Staatz, John M. and Carl K. Eicher. 1998. "Agricultural Development Ideas in Historical Perspective," in *International Agricultural Development*, 3rd edition, edited by Carl K. Eicher and John M. Staatz, Baltimore: The Johns Hopkins University Press.
- Thorbecke, Erik, "The Evolution of the Development Doctrine, 1950-2005," Mimeo 2009. World Bank, *World Development Report 2008: Agriculture for Development.* 2007.

2. Measures of Agricultural Protection

- Anderson, Kym, "Krueger/Schiff/Valdés Revisited: Agricultural Price and Trade Policy Reform in Developing Countries since 1960," *Policy Research Working Paper 5165*, Development Research Group, World Bank, January 2010.
- Anderson, Kym, and Will Martin (eds.), *Distortions to Agricultural Incentives in Asia*, Washington, D.C.: World Bank, 2009.
- Anderson, Kym, and Alberto Valdés (eds.), *Distortions to Agricultural Incentives in Latin America*, Washington, D.C.: World Bank, 2008.
- Fulginiti, Lilyan E., and Jason F. Shogren. 1992. "Agricultural Protection in Developing Countries," *American Journal of Agricultural Economics*, Vol. 74, No. 3, pp. 795-801.
- Gardner, Bruce L. 1987. "Causes of U.S. Farm Commodity Programs," *Journal of Political Economy*, Vol. 95, No. 2, pp. 290-310.
- Helfand, Steven M., "Interest Groups and Economic Policy: Explaining the Pattern of Protection in the Brazilian Agricultural Sector." *Contemporary Economic Policy*, Vol. 18, No. 4, October 2000, pp. 462-476.
- Helfand, Steven M., "The Distribution of Subsidized Agricultural Credit in Brazil: Do Interest Groups Matter?" *Development and Change*, Vol. 32, No. 3, June 2001, pp. 465-490.
- Krueger, Anne O., Maurice Schiff, and Alberto Valdés. 1988. "Agricultural Incentives in Developing Countries: Measuring the Effect of Sectoral and Economywide Policies," *The World Bank Economic Review*, Vol. 2, No. 3, 255-72.
- Swinnen, Johan, "Political Economy of Agricultural Distortions: The Literature to Date," Agricultural Distortions Working Paper 77, World Bank, May 2009.

3. Household Models

- Azam, Jean-Paul, and Timothy Besley. 1991. "Peasant Supply Response under Rationing: The Role of the Food Market," *European Journal of Political Economy* 7:331-43.
- Bardhan, Pranab, and Christopher Udry, *Development Microeconomics*, New York: Oxford University Press, 1999. Read Chapter 2, "Household Economics."
- Becker, Gary. 1965. "A Theory of the Allocation of Time," Economic Journal 75:493-517.

- Benjamin, Dwayne. 1992. "Household Composition, Labor Markets, and Labor Demand: Testing for Separation in Agricultural Household Models," *Econometrica* 60:287-322.
- de Janvry, Alain, and Elisabeth Sadoulet. 2005. "Progress in the Modeling of Rural Households' Behavior Under Market Failures," Chapter 9 in *Poverty, Inequality and Development: Essays in Honor of Erik Thorbecke*, Springer Publishers.
- de Janvry, Alain, M. Fafchamps, and E. Sadoulet. 1991. "Peasant Household Behavior with Missing Markets: Some Paradoxes Explained," *Economic Journal* 101:1400-17.
- Ellis, Frank. 1989. *Peasant Economics: Farm Households and Agrarian Development*. Cambridge: Cambridge University Press.
- Henning, H.C.A., and A. Henningsen. 2007. Modeling Farm Households Price Responses in the Presence of Transactions Costs and Heterogeneity in labor Markets," *American Journal of Agricultural Economics*, 89(3), pp. 665-81.
- Pfeiffer, L., A. López-Feldman, and J.E. Taylor. 2009. "Is off-farm income reforming the farm? Evidence from Mexico." *Agricultural Economics* 40, pp. 125–138.
- Reardon, Thomas, Christopher Delgado, and Peter Matlon. 1992. "Determinants and Effects of Income Diversification Amongst Farm Households in Burkina Faso," *Journal of Development Studies* 28:264-96.
- Sadoulet Elisabeth, and Alain de Janvry. 1995. *Quantitative Development Policy Analysis*, Baltimore: Johns Hopkins University Press. Read chapter 6.
- Singh, Inderjit, Lyn Squire, and John Strauss, eds. 1986. *Agricultural Household Models*. Baltimore: Johns Hopkins University Press.
- Taylor, J.E., G. Dyer, and A. Yúnez-Naude. 2005. "Disaggregated Rural Economywide Models for Policy Analysis," *World Development*, 33(10): 1671-88.
- Udry, C. 1996. "Gender, Agricultural Production, and the Theory of the Household." *Journal of Political Economy* 104, pp. 1010-46.

4. Productivity, Efficiency, and Farm Size

- a) Farm Size and Productivity
- Assunção, J. and L. Braido, 2007. "Testing Household-Specific Explanations for the Inverse Productivity Relationship," *American Journal of Agricultural Economics* 89(4): 980-90.
- Barrett, C. B. 1996. "On Price Risk and the Inverse Farm Size-Productivity Relationship," *Journal of Development Economics* 51(2):193-216.
- Barrett, C. B., M.F. Bellemare, and J.Y. Hou, 2010. "Reconsidering Conventional Explanations of the Inverse Productivity-Size Relationship," World Development, 38(1), 88-97.
- Benjamin, D. 1995. "Can Unobserved Land Quality Explain the Inverse Productivity Relationship," *Journal of Development Economics* 46(1):51-84.
- Berry, R Albert, and William Cline. 1979. *Agrarian Structure and Productivity in Developing Countries*, Baltimore: Johns Hopkins University Press.
- Carter, M. 1984. "Identification of the Inverse Relationship between Farm Size and Productivity," *Oxford Economic Papers* 36:131-45.
- Eswaran, Mukesh, and Ashok Kotwal. 1986. "Access to Capital and Agrarian Production Organisation," *Economic Journal* 96:482-98.
- Feder, Gershon. 1985. "The Relation between Farm Size and Farm Productivity: The Role of Family Labor, Supervision and Credit Constraints," *Journal of Development Economics* 18:297-313.

- Hazell, P., C. Poulton, S. Wiggins, and A. Dorward. 2007. "The Future of Small Farms for Poverty Reduction and Growth." *IFPRI 2020 Discussion Paper 42*, May 2007.
- Helfand, Steven M., and Edward S. Levine, "Farm Size and the Determinants of Productive Efficiency in the Brazilian Center-West," *Agricultural Economics*, 31, 2004, 241-49.
- Lamb, Russell L. 2003. "Land Quality, Labor Markets, and Measurement Error," *Journal of Development Economics*, 71: 71-95.
- Moreira, A.R.B., S. Helfand, and A.M.R. Figueiredo. 2007. "Explicando as diferenças de Produtividade Agrícola no Brasil." Texto para discussão IPEA, 1254, Rio de Janeiro.
- Sadoulet Elisabeth, and Alain de Janvry. 1995. *Quantitative Development Policy Analysis*, Baltimore: Johns Hopkins University Press. Read chapter 9.
- b) Efficiency and Productivity Measurement
- Ali Mubarik, and John Flinn. 1989. "Profit Efficiency Among Basmati Rice Producers in Pakistani Punjab," *American Journal of Agricultural Economics* 71(2):303-10.
- Ball, Eldon V., "Output, Input, and Productivity Measurement in U.S. Agriculture, 1948-79," *American Journal of Agricultural Economics*, V. 67, August, 1985, 475-86.
- Capalbo, Susan M. and John M. Antle, *Agricultural Productivity: Measurement and Explanation*, Washington, D.C.: Resources for the Future, 1988.
- Coelli, Tim, D.S. Prasada Rao, and George E. Battese, *An Introduction to Efficiency and Productivity Analysis*, Norwell: Kluwer Academic Publishers, 1999.
- Fulginiti, Lilyan E., and Richard K. Perrin, "LDC Agriculture: Nonparametric Malmquist Productivity Indexes," *Journal of Development Economics*, Vol. 53, 1997, pp. 373-90.
- Fuwa, N., C. Edmonds, and P. Banik. 2007. "Are Small-Scale Rice Farmers in Eastern India Really Inefficient? Examining the Effects of Microtopography on Technical Efficiency Estimates." *Agricultural Economics* 36: 335-46.
- Headey, Derek, M. Alauddin, D. Rao. 2010. "Explaining Agricultural Productivity Growth: An International Perspective." *Agricultural Economics* 41: 1-14.
- Gerdin, Anders, "Productivity and Economic Growth in Kenyan Agriculture, 1964-96," *Agricultural Economics* 28, 2003, 7-13.
- Hayami, Yujiro, and Vernon W. Ruttan, *Agricultural Devlopment: An International Perspective*, Baltimore: John Hopkins University Press, 1985.
- Kumbhakar, Subal C., and C.A. Knox Lovell, *Stochastic Frontier Analysis*, Cambridge: Cambridge University Press, 2000.
- Thiam, A., B.E. Bravo-Ureta, and T.E. Rivas, "Technical Efficiency in Developing Country Agriculture: A Meta Analysis," *Agricultural Economics*, V. 25, 2001, pp. 235-43.
- Wu, Shunxiang, David Walker, Stephen Devadoss, and Yao-chi Lu, "Productivity Growth and its Components in Chinese Agriculture after Reforms," *Review of Development Economics*, Vol. 5, No. 3, 2001, pp. 375-391.

5. Poverty and Anti-Poverty Policies

- a) Introduction
- Lipton, Michael, and Martin Ravallion. 1995. "Poverty and Policy," Chapter 41 in *Handbook of Development Economics Vol. IIIB*, edited by Behrman, Jere, and T.N. Srinivasan. Amsterdam: Elsevier.
- Ravallion, M. "Evaluating Anti-Poverty Programs." 2008. Chapter 59 in *Handbook of Development Economics Vol. 4*, edted by T. P. Schultz, and J. Strauss. Amsterdam: Elsevier.
- Ravallion, Martin. 1994. *Poverty Comparisons*, Chur, Switzerland: Harwood Academic Publishers.
- b) Growth, Distribution, and the Role of Initial Conditions
- Bresciani, Fabrizio, and Alberto Valdés (eds.), *Beyond Food Production: The Role of Agriculture in Poverty reduction*, Northampton: FAO and Edward Elgar Publishing, 2007.
- Datt, G. and M. Ravallion. 1998. "Why Have Some States Done Better than Others at Reducing Rural Poverty." *Economica* 65:257, 17-38.
- Datt, G. and M. Ravallion. 1992. "Growth and Redistribution Components of Changes in Poverty Measures: A Decomposition with Applications to Brazil and India in the 1980s." *Journal of Development Economics* 38: 275-95.
- Dorward, Andrew, Jonathan Kydd, Jamie Morrison and Ian Urey, "A Policy Agenda for Pro-Poor Agricultural Growth," *World Development*, Vol. 32, No. 1, 2003, pp. 73-89.
- Ferreira, F., P. Leite, M. Ravallion. 2009. "Poverty Reduction without Economic Growth?: Explaining Brazil's Poverty Dynamics, 1985–2004." *Journal of Development Economics*.
- Helfand, S., R. Rocha, and H. Vinhais. 2009. "Pobreza e Desigualdade no Brasil Rural: Uma Análise da Queda Recente." *Pesquisa e Planejamento Econômico* 39(1): 67-88.
- Ravallion, Martin, and Guarav Datt, "Why Has Economic Growth Been More Pro-Poor in Some States of India than Others," *Journal of Development Economics*, 68, 381-400, 2002.
- Thirtle, Colin, Lin Lin, and Jenifer Piesse, "The Impact of Research-Led Agricultural Productivity Growth on Poverty Reduction in Africa, Asia and Latin America," *World Development*, Vol. 32, No. 12, 2003, 1959-75.
- World Bank, *World Development Report 2008*, "Rural Households and their Pathways out of Poverty," Chapter 3, pp. 72-95.
- c) Poverty Mapping
- Agostini, C., P. Brown, and A Roman. 2009. "Poverty and Inequality among Ethnic Groups in Chile." Forthcoming in *World Development*.
- Alderman, H., Babita, M., Demombynes, G., Makhatha, N. and Özler, B. (2001). "How Low Can You Go? Combining Census and Survey Data for Mapping Poverty in South Africa". Journal of African Economies, Volume 11, Issue 3.
- Demombynes, G., Elbers, C., Lanjouw, J. O., Lanjouw, P., Mistiaen, P and Özler, B. (2004) "Producing an Improved Geographic Profile of Poverty: Methodology and Evidence from Three Developing Countries," in Shorrocks, A. and Van der Hoeven, R., *Growth, Inequality and Poverty: Prospects for Pro-Poor Economic Development*, UNU/WIDER, Oxford University Press.
- Elbers, C., Fujii, T., Lanjouw, P., Özler, B., & Yip, W. (2007). Poverty alleviation through geographic targeting: How much does disaggregation help? *Journal of Development Economics* 83(1), 198-213.

- Elbers, C., Lanjouw, J. and Lanjouw, P. (2005) "Imputed Welfare Estimates in Regression Analysis," Journal of Economic Geography. Vol. 5, no. 1, pp. 1-18.
- Elbers, C., Lanjouw, J.O., & Lanjouw, P. (2003). Micro-level estimation of poverty and inequality. *Econometrica* 71(1), 355-364.
- Elbers, C., Lanjouw, P. and Leite, G. 2008. "Brazil within Brazil: Testing the Poverty Map Methodology in Minas Gerais." World Bank Policy Research Working Paper 4513.
- Elbers, C., Lanjouw, J., Lanjouw, P. and Leite, G. (2002), "Poverty and Inequality in Brazil: New Estimates from Combined PPV-PNAD Data," mimeo, World Bank, 2001.
- Figuereido, F., S. Helfand, E. Levine. "Income versus Consumption Measures of Rural Poverty and Inequality in Brazil." Paper presented at BASIS conference, Brasilia, April 2007.
- Levine, E. 2007. "Small Area Poverty Estimation for Inter-Temporal Comparison," chapter 3 in "Worker Institutions and Poverty Under "Neoliberalism" in Latin America: Three Applications of New Empirical Techniques to Previously-Unavailable Data," Ph.D. dissertation, UC Riverside.
- Minot, N. (2000). "Generating Disaggregated Poverty Maps: An Application to Viet Nam." *World Development*, 28(2): 319-331.
- Minot, N. and Baulch, B. (2005). "Poverty Mapping with Aggregate Census Data: What is the Loss in Precision?". *Review of Development Economics*, Vol. 9, No. 1, pp. 5-24, February 2005.
- Tarozzi, A., and A. Deaton. "Using Census and Survey Data to Estimate Poverty and Inequality for Small Areas." *The Review of Economics and Statistics*, November 2009, 91(4): 773–792.

d) Cash Transfer Programs

- Agüero, Jorge; Michael Carter and Ingrid Woolard. 2009. "The Impact of Unconditional Cash Transfers on Nutrition: The South African Child Support Grant." Mimeo.
- Angelucci, Manuela, and Giacomo De Giorgi. 2009. "Indirect Effects of an Aid Program: How Do Cash Transfers Affect Ineligibles' Consumption?" *American Economic Review* 99:1, 486–508.
- Das, Jishnu, Quy-Toan Do, and Berk Özler, "Reassessing Conditional Cash Transfer Programs," *World Bank Research Observer*, Vol. 20, No. 1 (Spring 2005),pp. 57-80.
- de Janvry, Alain, F. Finan, and E. Sadoulet, R. Vakis. 2006. "Can conditional cash transfer programs serve as safety nets in keeping children at school and from working when exposed to shocks?" *Journal of Development Economics* 79: 349-73.
- de Janvry, Alain, and E. Sadoulet. 2006. "Making Conditional Cash Transfer Programs More Efficient: Designing for Maximum Effect of the Conditionality." *The World Bank Economic Review* 20:1, 1-29.
- Ferreira, F., D. Filmer, and N. Schady. July 2009. "Own and Sibling Effects of Conditional Cash Transfer Programs: Theory and Evidence from Cambodia." World Bank Policy Research Working Paper 5001.
- Fiszbein, A., N. Schady. 2009. *Conditional Cash Transfers: Reducing Present and Future Poverty*. Washington, D.C.: World Bank.
- Heinrich, C. 2007. "Demand and Supply-Side Determinants of Conditional Cash Transfer Program Effectiveness." *World Development* 35:1, 121-43.
- Rawlings, Laura B. and Gloria M. Rubio, "Evaluating the Impact of Conditional Cash Transfer Programs," *World Bank Research Observer*, Vol. 20, No. 1 (Spring 2005), pp. 29-55.

6. Rural Non-Agricultural Employment

- Christiaensen, Luc, and Yasuyuki Todo, "Poverty Reduction during the Rural-Urban Transformation The Role of the Missing Middle," Mimeo, May 2009.
- Davis, B., P. Winters, T. Reardon, and K. Stamoulis. 2009. "Rural Nonfarm Employment and Farming: Household-Level Linkages," *Agricultural Economics*, Vol. 40, pp. 119-23.
- Deichmann, Uwe, Forhad Shilpi, and renos Vakis. 2008. "Urban Proximity, Agricultural Potential and Rural Non-farm Employment: Evidence from Bangladesh," *World Development*, 37(3), pp. 645-60.
- Ellis, Frank, *Rural Livelihoods and Diversity in Developing Countries*, New York: Oxford University Press, 2000.
- Foster, Andrew, and M. Rosenzweig, "Agricultural Productivity Growth, Rural Economic Diversity, and Economic Reforms: India, 1970-2000, *Economic Development and Cultural Change*, 52(3), pp. 509-42, 2004.
- Foster, Andrew, and M. Rosenzweig, "Economics Development and the Decline of Agricultural Employment," chapter 47 in *Handbook of Development Economics, Volume 4*, Elsevier, 2008.
- Jonasson, Erik, and Steven Helfand, "How Important are Locational Characteristics for Ruran Non-Agricultural Employment? Lessons from Brazil," *World Development*, V. 38, N. 5, 2010, pp. 727-741.
- Lanjouw, Peter. 2007. "Does the Rural Nonfarm Economy Contribute to Poverty Reduction?", chapter 3 in Haggblade, Hazell, & Reardon (eds), *Transforming the Rural Nonfarm Economy*. Baltimore: Johns Hopkins University Press.
- Lanjouw, Peter, and Rinku Murgai. 2009. "Poverty Decline, Agricultural Wages, and Nonfarm Employment in Rural India: 1983-2004," *Agricultural Economics*, Vol. 40, pp. 243-63.
- Laszlo, S. "Self-Employment Earnings and Returns to Education in Rural Peru." *Journal of Development Studies*, 41(7), 1247–1287, 2005.
- McCulloch, N., J. Weisbrod, C.P. Timmer. "Pathways out of poverty during an economic crisis: An empirical assessment of rural Indonesia." World Bank Policy Research Working Paper 4173, March 2007.
- Oseni, Gbemisola, and Paul Winters. 2009. "Rural Nonfarm Activities and Agricultural Crop Production in Nigeria," *Agricultural Economics*, Vol. 40, pp. 189-201.
- Owusu, Victor and Awudu Abdulai, "Nonfarm Employment and Poverty Reduction in Rural Ghana: A Propensity-Score Matching Analysis," paper presented at the International Association of Agricultural Economists Conference, Beijing, China, August 16-22, 2009.
- Pfeiffer, Lisa, A. López-Feldman, and J.E. Taylor. 2009. "Is Off-Farm Income Reforming the Farm: Evidence from Mexico," *Agricultural Economics* Vol. 40, pp. 125-138.
- Reardon, Thomas, Julio Berdegué, and German Escobar, "Rural Nonfarm Employment and Incomes in Latin America: Overview and Policy Implications," *World Development*, V. 29, N. 3, March 2001, pp. 395-409.
- World Development, special issue on "Rural Nonfarm Employment and Incomes in Latin America: Overview and Policy Implications," V. 29, N. 3, March 2001. See articles on Brazil, Chile, Colombia, Ecuador, El Salvador, Honduras, Mexico, Nicaragua, and Peru.
- World Bank, World Development Report 2008, "Moving Beyond the Farm," Chapter 9, pp. 202-25.

7. Land Reform and Land Markets

- Alston, Lee J., and Bernardo Mueller. Feb. 2010. "Property Rights, Land Conflict, and Tenancy in Brazil." NBER Working Paper 15771.
- Binswanger, Hans P., Mkhize, Camille Bourguignon, Rogier van den Brink (eds.), *Agricultural Land Redistribution: Toward Greater Consensus*, Washington D.C.: World Bank, 2009.
- Boucher, S., B. Barham, and M. Carter. 2005. "The Impact of "Market-Friendly" Reforms on Credit and Land Markets in Honduras and Nicaragua." *World Development* 33:1, 107-28.
- Borras Jr., S., C. Kay, and A. Akram-Lodhi. 2009. "Agrarian Reform and Rural Development: Historical Overview and Current Issues," Chapter 1 in *Land Poverty, and Livelihoods in an Era of Globalization: Perspectives from Developing and Transition Countries*. New York: Routledge.
- de Janvry, Alain, Jean-Philippe Platteau, Gustavo Gordillo, and Elisabeth Sadoulet, "Access to Land and Land policy Reforms," Chapter 1 in *Access to Land, Rural Poverty, and Public Action*, New York: Oxford University Press, 2001.
- de Janvry, Alain, Elisabeth Sadoulet, and Wendy Wolford, "The Changing Role of the State in Latin American Land Reforms," Chapter 11 in *Access to Land, Rural Poverty, and Public Action*, New York: Oxford University Press, 2001.
- Deininger, Klaus, 'Negotiated Land Reform as One Way of Land Access: Experiences from Colombia, Brazil, and South Africa." Chapter 13 in *Access to Land, Rural Poverty, and Public Action*, New York: Oxford University Press, 2001.
- Deininger, Klaus, *Land Policies for Growth and Poverty Reduction*, Washington, D.C.: World Bank and Oxford University Press, 2003.
- Deininger, Klaus, and Hans Binswanger, "The Evolution of the World Bank's Land Policy: Principles, Experiences, and Future Challenges," *The World Bank Research Observer*, Vol. 14, No. 2, August 1999, pp. 247-76.
- Finan, Frederico, E. Sadoulet, and A. de Janvry. 2005. "Measuring the Poverty Reduction Potential of Land in Rural Mexico." *Journal of Development Economics* 77: 27-51.
- Griffin, Keith, Aziz Khan, and Amy Ickowitz, 2002. "Poverty and the Distribution of Land," *Journal of Agrarian Change, V. 2, N. 3, 279-330.*
- Kay, Cristóbal, "Agrarian Reform and Rural Development in Latin America: Lights and Shadows," paper presented at the International Conference on Agrarian Reform and Rural Development, Philippines, December 5-8, 2000.
- Keswell, Malcolm, Michael Carter and Klaus Deininger. 2010. "Poverty and Land Redistribution: Quasi-Experimental Evidence from South Africa's LRAD Program." Mimeo.
- Moreira, A.R.B., S. Helfand, and A.M.R. Figueiredo. 2009. "Explicando as diferenças de Pobreza entre os Produtores Agrícola no Brasil." Mimeo.
- Sadoulet, E., R. Murgai, and A. de Janvry. "Access to Land via Land Rental Markets." Chapter 8 in *Access to Land, Rural Poverty, and Public Action*, New York: Oxford University Press, 2001.