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Peter Brian Reginald Hazell

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Peter Hazell has devoted most of his career to research and advisory work on policy issues related to agricultural development. Initially trained as an agriculturalist in England, he completed his Ph. D. in agricultural economics at Cornell University in 1970. After a stint with the University of Newcastle-upon-Tyne where he worked on adjustment issues facing British agriculture following the UK's accession to the EC, he joined the World Bank to pursue a research career in international agricultural development. From 1972 to 2005 he held various research and management positions at the Bank and the International Food Policy Research Institute (IFPRI). He is currently a Visiting Professor at Imperial College London, Wye Campus. Peter's extensive and widely cited publications include works on new methods of using mathematical programming to solve farm and agricultural sector planning problems under risk; the impact of technological change on growth and poverty reduction; the appropriate role of agricultural insurance in developing countries; agriculture's growth linkages to the rural non-farm economy; sustainable development strategies for marginal lands; and the role of agriculture and small farms in economic development. Peter has worked extensively throughout Africa, Asia, the Middle East and Latin America and has advised several key donor agencies on their agricultural development strategies.. He was elected a Fellow of the American Agricultural Economics Association in 2005, and his work in India was recently recognized through the award of D.Sc. (Honoris Causa) by Tamil Nadu Agricultural University. Peter currently works

on the future of small farms and on bioenergy issues related to agriculture.

EDUCATION

- 1970 Ph. D. Cornell University, New York, Agricultural Economics
1968 M.S. Cornell University, New York, Agricultural Economics
1965 College Diploma in Farm Management (Hons), Seale-Hayne Agricultural College, Newton Abbot, Devon.
1964 National Diploma in Agriculture (NDA), Royal Agricultural Society
1964 College Diploma in Agriculture, Seale-Hayne Agricultural College, Newton Abbot, Devon.

AWARDS

- Fellow, American Agricultural Economics Association, 2005
D.Sc (*Honoris Causa*), Tamil Nadu Agricultural University, India, 2004
Listed in Who's Who in Economics: A Biographical Dictionary of Major Economists 1700-1981. M. Blaug and P. Sturges (eds.), The MIT Press, Cambridge, MA 1983. Also listed in the second (1986) and third (1999) editions. Entry is based on number of citations in leading journals.
Member, Phi Kappa Phi, 1970

APPOINTMENTS

- Visiting Professor, Imperial College London, Wye campus, Wye, Kent, England. Since November 1, 2005.
Director, Development Strategy and Governance Division, 2003 – 2005, Director, Environment and Production Technology Division, 1992-2003, International Food Policy Research Institute.
Principal Economist, 1988-92, Senior Economist, 1986-88, Agriculture and Rural Development Department, World Bank.
Director, Agricultural Growth Linkages and Development Policy Program, 1984-86. Research Fellow, 1979-84, International Food Policy Research Institute.
Economist, Development Research Center, 1973-79. Young Professional, 1972-73, World Bank.
Senior Research Associate and Trade Policy Research Center Fellow, 1970-72, University of Newcastle-upon-Tyne, England.

EDITORIAL DUTIES

- Associate Editor, American Journal of Agricultural Economics, Volumes 69-73.
Guest Editor, Agricultural Economics, Special Issue on Agricultural Growth, Poverty and the Environment. 1998.
Member, Editorial Advisory Board, International Journal of Agricultural Sustainability. Organized the contributed papers competition for the XXIII Conference on the International Association of Agricultural Economists, Sacramento, California, 1997.

SELECTED PUBLICATIONS

Journal Papers and Book Chapters

How, R.B., and P.B.R. Hazell. Choice of Farm Enterprises Under Uncertainty, *New York's Food and Life Sciences*, Vol. 1, No. 4, October-December 1968.

Hazell, P.B.R. and R.B. How. *Obtaining Acceptable Farm Plans under Uncertainty*. Contributed paper presented to the International Association of Agricultural Economists at Minsk, U.S.S.R. August-September, 1970. (Published in Conference proceedings).

Hazell, P.B.R. Game Theory: An Extension of its application to farm planning under uncertainty. *Journal of Agricultural Economics*. 21:239-52, May, 1970.

Hazell, P.B.R. A Comment on the Fractile Approach to Linear Programming Under Risk. *Management Science*. November, 1970.

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Buckwell, A.E. and P.B.R. Hazell. Implications of Aggregation Bias for the Construction of Static and Dynamic Linear Programming Supply Models. *Journal of Agricultural Economics*, 23119-134, May, 1972.

Thomson, K.J. and P.B.R. Hazell. The Reliability of Using the Mean Absolute Deviation to Derive Efficient EV Farm Plans. *American Journal of Agricultural Economics*, 54:503-506, August 1972. (Also reply to a comment, November, 1973).

Hazell, P.B.R., and P.L. Scandizzo. An Economic Analysis of Peasant Agriculture Under Risk. Contributed paper presented to the International Association of Agricultural Economists at Sao Paulo, Brazil, August 1973. (Published in supplement to *International Journal of Agrarian Affairs*, 1974-75).

Hazell, P.B.R. and P.L. Scandizzo. Competitive Demand Structure Under Risk in Agricultural Linear Programming Models. *American Journal of Agricultural Economics*, 56:235-44, May, 1974.

Duloy, J.H.L and P.B.R. Hazell. Substitution and Nonlinearities in Planning Models. *In Economy-Wide Models and Development Planning*, Edited by C.R. Blitzer, P.B. Clarke and L. Taylor. Oxford University Press, 1975.

Hazell, P.B.R. and P.L. Scandizzo. Market Intervention Policies When Production is Risky. *American Journal of Agricultural Economics*. 57:641-649, November 1975.

Davey, B. and P.B.R. Hazell. Adjustment in British Farm Production. In *Agriculture and the State*. Edited by B. Davey, T. Josling and A- McFarquhar. MacMillan Press for the Trade Policy Research Center, London, 1976.

Hazell, P.B.R. and P.L. Scandizzo. Farmers' Expectations, Risk Aversion and Market Equilibrium Under Risk. *American Journal of Agricultural Economics*. 59:204-209, February, 1977.

Anderson, J.R., P.B.R. Hazell and P.L. Scandizzo. Considerations in the Design of Stabilization Schemes. *American Journal of Agricultural Economics*, 59:908-911, December, 1977.

Hazell, P.B.R. Endogenous Input Prices in Linear Programming Models *American Journal of Agricultural Economics*. 61:476-481, August, 1979.

Hazell, P.B.R. and P.L. Scandizzo. Optimal Price Intervention Policies When Production is Risky. In *Risk, Uncertainty and Agricultural Development*. Edited by J.A. Roumasset, J.M. Boussard and I. Singh, Agricultural Development Council, N.Y. 1979.

Hazell, P.B.R. and C. Pomareda, Evaluating Price Stabilization Schemes with Mathematical Programming. *American Journal of Agricultural Economics*, 63:550-6, August, 1981.

Bell, C.L.G., P.B.R. Hazell, and R. Slade. The Prospects for Growth and Change in the Muda Project Region, Malaysia. In *Village Level Modernization in Southeast Asia*. Edited by G.B. Hainsworth. University of British Columbia Press, 1982.

Hazell, P.B.R. Application of Risk Preference Estimates in Firm-Household and Agricultural Sector Models. *American Journal of Agricultural Economics*. 64:384-90, May, 1982.

Bell, C.L.G. and P.B.R. Hazell. Measuring the Indirect Effects of an Agricultural Investment Project on its Surrounding Region *American Journal of Agricultural Economics*, 62:75-86, February, 1980. Reprinted in *Agricultural Sector Analysis in Asia*, Max Langham and Ralph Restzloff (eds.). Agricultural Development Council. Singapore University Press, 1982. Also reprinted in *Further Readings on Malaysian Economic Development*. David Lim (Editor), Oxford University Press, Kuala Lumpur, 1983.

Hazell, P.B.R., R Norton, M. Parthasarathy and C. Pomareda. The Importance of Risk in Agricultural Planning Models. In *The Book of CHAC, Programming Studies for Mexican Agriculture*. Edited by R.D. Norton, and L. Solis, Johns Hopkins University Press, 1983.

Hazell, P.B.R., and P.L. Scandizzo. Risk in Market Equilibrium Models for Agriculture. In *The Book of CHAC, Programming Studies for Mexican Agriculture*. Edited by R.D. Norton and L. Solis, Johns Hopkins University Press, 1983.

Scandizzo, P.L., P.B.R. Hazell and Jock R. Anderson. Producers' Price Expectations and the

Size of the Welfare Gains from Price Stabilization. *Review of Marketing and Agricultural Economics*. 51:93-107, August, 1983.

Hazell, P.B.R. *Rural Growth Linkages and Rural Development Strategy*. Paper presented to the IVth European Congress of Agricultural Economists, Kiel, West Germany, September, 1984. (Published in conference proceedings.)

Hazell, P.B.R., and A. Valdés. Choosing the Right Role for Crop Insurance, *Ceres*, May-June, 1984.

Hazell, P.B.R. Sources of Increased Instability in India and U.S. Cereal Production. *American Journal of Agricultural Economics*, 66:302-11, August, 1984.

Hazell, P.B.R. Sources of Increased Variability in World Cereal Production Since the 1960s. *Journal of Agricultural Economics*, 36:145-60, May, 1985.

Hazell, P.B.R., L.M. Bassoco, and G. Arcia. A Model for Evaluating Farmers' Demand for Insurance: Applications in Mexico and Panama. In P.B.R. Hazell, C. Pomareda and A. Valdés (eds.), *Crop Insurance for Agricultural Developments: Issues and Experience*. Johns Hopkins University Press, 1986.

Hazell, P.B.R., and J. Anderson. Public Policy Toward Technological Change in Agriculture. *Greek Economic Review*, 6:453-82, December, 1984. Reprinted in P. Hall (ed.), *Technology, Innovation and Economic Policy*, Oxford: Philip Allan Publishers, 1986.

Per Pinstруп-Andersen and P.B.R. Hazell. The Impact of the Green Revolution and Prospects for the Future. *Food Reviews International*, 1: 1-25, 1985. Reprinted in J.P. Gittinger, J. Leslie and C. Hoisington (eds.). *Food Policy*, Johns Hopkins University Press, 1987.

Hazell, P.B.R., and R. Slade. Regional Growth Linkages from Agriculture, *A Reply*. *Journal of Developmental Studies*, 23:290-4, January, 1987.

Hazell, P.B.R. *Economic Policy for Diversification*. In T.J. Davis and I.A. Schirmer (eds.), *Sustainability Issues in Agricultural Development: Proceedings of the Seventh Agriculture Sector Symposium*. The World Bank, Washington, D.C., 1987.

Anderson, J.R., P.B.R. Hazell and L. Evans. Variability in Cereal Yields: Sources of Change and Implications for Agricultural Research and Policy. *Food Policy*, 12:199-212, August, 1987.

Flinn, J.C. and P.B.R. Hazell. Production, Instability and Modern Rice Technology -- A Philippine Case Study. *The Developing Economies*, 26:34-50, March, 1988.

Hazell, P.B.R. Risk and Uncertainty in Domestic Production and Prices. In J. Mellor and R. Ahmed (eds.). *Agricultural Price Policy for Developing Countries*, Johns Hopkins University Press, 1988.

Anderson, J.R., J.L. Dillon, A.J. Cowie, P.B.R. Hazell and E.H. Wan. Changing Variability in Cereal Production in Australia. *Review of Marketing and Agricultural Economics*, 56(3):270-86, 1988.

Haggblade, S., P.B.R. Hazell and J. Brown. Farm-NonFarm Linkages in Rural Sub-Saharan Africa. *World Development*, 17:1173-1202, August, 1989.

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Hazell, P.B.R., M. Jaramillo, and A. Williamson. The Relationship Between World Price Instability and the Prices Farmers Receive in Developing Countries. *Journal of Agricultural Economics*, 41:227-41, 1990.

Haggblade, S., J. Hammer and P.B.R. Hazell. Modeling Agricultural Growth Multipliers. *American Journal of Agricultural Economics*, 73(2):361-74, 1991.

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Blarel, B., P. Hazell, F. Place, and J. Quiggen. The Economics of Farm Fragmentation: Evidence from Ghana and Rwanda. *The World Bank Economic Review*, 6(2):233-254. 1992.

Hazell, P. And W. Magrath. Summary of World Bank Forestry Policy. In *Conservation of West and Central African Rainforests*, K. Cleaver, M. Munasinghe, M. Dyson, N. Egli, A. Penker, F. Wencelius (eds). World Bank Environment Paper Number 1, October 1992.

Hazell, P.B.R. and S. Haggblade. Farm-Nonfarm Growth Linkages and the Welfare of the Poor. In *Including the Poor*. Michael Lipton and Jacques van der Gaag (eds.). World Bank, 1993.

Place, F., and P.B.R. Hazell. The Productivity Effects of Indigenous Land Tenure Systems in Sub-Saharan Africa. *American Journal of Agricultural Economics*, 75(1):10-19, 1993.

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Hazell, P.B.R. and R. Stewart. Should Costa Rica's Grain Markets be Liberalized? *Food Policy*, December, 1993.

Migot-Adholla, S., Peter Hazell, B. Blarel and F. Place. Indigenous Land Rights Systems in Sub-Saharan Africa: A Constraint on Productivity. In *The Economics of Rural Organization: Theory, Practice and Policy*. Karla Hoff, Avishay Braverman and Joseph Stiglitz (eds.). Oxford University Press. 1993.

Hazell, P. New Challenges of Resource and Environment Data for Policy Research. In *Data Needs for Developing Countries*, J. von Braun and D. Puetz (eds.), IFPRI, January, 1993.

Singh, R.P., and P.B.R. Hazell. Rural Poverty in the Semi-Arid Tropics of India: Identification, Determinants and Policy Interventions. *Economic and Political Weekly*. March 20-27, 1993.

Hazell, P. Rice In India. In *Research and Exploration* 10(2):172-183, 1994.

Delgado, C., P. Hazell, J. Hopkins and V. Kelly. December 1994. Promoting Intersectoral Growth Linkages in Rural Africa Through Agricultural Technology and Policy Reform. *American Journal of Agricultural Economics*. 76(5):1166-1171. 1994.

Anderson, J. and P.B.R. Hazell. Risk Considerations in the Design and Transfer of Agricultural Technology. In *Agricultural Technology: Policy Issues for the International Community*, Jock R. Anderson (ed.) CAB International. 1994.

Hazell, P. and A. Abdulai. The Role of Agriculture in Sustainable Economic Development in Africa: Prerequisites and Priorities for Sustainable Growth in Africa. *Journal of Sustainable Agriculture*; 7(2/3):101-119,1995

Hazell, P.B.R. and B. Hojjati. Farm/Non-farm Growth Linkages in Zambia, *Journal of African*

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Hazell, P. Priorities for Forest Policy Research. *Commonwealth Forestry Review*. 74(3) 244-45, 1995.

Misra, V.N. and Hazell, P.B.R. Terms of Trade, Rural Poverty, Technology and Investment: The Indian Experience, 1952-53 to 1990-9 1. *Economic and Political Weekly*; 21(13), March 30, 1996.

Anderson, J.R. and Hazell, P.B.R. Risk Considerations in Agricultural Policy Making. In *Risk Management Strategies in Agriculture: State of the Art and Future Perspectives*, R.B.M. Huirne, J B. Hardaker and A.A. Dijkhuizen (eds); Chapter 23 (p. 273-284), 1996.

Byerlee D., P. Hazell, and J. Kerr. Critical Resource, Technology, and Environmental Issues for Meeting Future Grain Productions Needs in Asia. *American Journal of Agricultural Economics*. 79(5):1480-1484, 1997.

Bhalla, G.S. and P. Hazell. Foodgrains Demand in India to 2020: A Preliminary Exercise. *Economic and Political Weekly*, Vol. XXXII, No. 52, Dec. 27 1997-Jan 2, 1998.

Fan, Shenggen and Peter Hazell. Should Developing Countries Invest More in Less-Favored Areas? An Empirical Analysis of Rural India. *Economic and Political Weekly*, Vol. XXXV, No 17, April 22, 2000.

Fan, Shenggen, Peter Hazell and T. Haque. Targeting Public Investments by Agro-Ecological Zone to Achieve Growth and Poverty Alleviation Goals. *Food Policy*. 25 (4): 411-428, 2000. Also reply to a comment, *Food Policy*, 28: 433-436, 2003.

Fan, Shenggen, Peter Hazell and Sukhadeo Thorat. Government Spending, Growth and Poverty in India. *American Journal of Agricultural Economics*, 82 (4): 1038-1051, 2000.

Hazell, P., and S. Wood. From Science to Technology Adoption: The Role of policy Research in Improving Natural Resource Management. *Agriculture, Ecosystems and Environment* 82, 385-393, 2000.

Fan, S., P. Hazell and S. K. Thorat. Impact of Public Expenditure on Poverty in Rural India. *Economic & Political Weekly*, Vol. XXXV, No. 40, PP. 3581-3588, September 2000.

Skees, J., P. Hazell, and M. Miranda. New Approaches to Crop Yield Insurance in Developing Countries (“Nuovi approcci per le assicurazioni in agricoltura nei Paesi in via di sviluppo”), *Rivista di Politic Agraria*, Vol. XVIII, No. 1-2, pp. 31-52, April 2000.

Hazell, P. Policies for Achieving Food Security without Degrading the Environment. *UN Sub-Committee on Nutrition (SCN) News*, No. 21. December 2000.

Hazell, P. and S. Fan. "Balancing Regional Development Priorities to Achieve Sustainable and Equitable Agricultural Growth," Chapter 9 in *Tradeoffs or Synergies? Agricultural Intensification, Economic Development and the Environment*, edited by D. R. Lee and C. B. Barrett. Wallingford, U.K.: CAB International, 2000.

Hazell, Peter, Peter Oram, and Nabil Chaherli. "Managing Livestock in Drought-Prone Areas of the

Middle East and North Africa: Policy Issues". In (ed) Hans Löfgren. *Food and Agriculture in the Middle East*. Research in Middle East Economics, Vol. 5. New York: Elsevier Science, 2001.

Hazell, P. Agriculture and the Environment. *Environment and Development Economics*. 6 (4): 516-524, October, 2001.

Channing Arndt, Peter Hazell, and Sherman Robinson. "Economic Value of Climate Forecasts for Agricultural Systems in Africa." *Climate Prediction and Agriculture*. M. V. K. Sivakumar (ED.). Washington, D.C., World Meteorological Organization, International START Secretariat, 2000.

Public Policy and Drought Management in Agropastoral Systems. In *Property Rights, Risk, and Livestock Development in Africa*. Nancy McCarthy, Brent Swallow, Michael Kirk and Peter Hazell (Eds.). International Livestock Research Center (Nairobi) and International Food Policy Research Institute (Washington DC). January 2000.

Implications of Population Growth and Declining Access to Transhumant Grazing Areas for the Sustainability of Agropastoral Systems in the Semi-Arid Areas of Niger. In *Property Rights, Risk, and Livestock Development in Africa*. Nancy McCarthy, Brent Swallow, Michael Kirk and Peter Hazell (Eds.). International Livestock Research Center (Nairobi) and International Food Policy Research Institute (Washington DC). January 2000.

P. Hazell. Agricultural Growth, Poverty and the Environment. In *Sustainability of Agricultural Systems in Transition*. Edited by William Payne, Dennis Keeney and Srinivas Rao. American Society of Agronomy Special Publication Number 64,, Madison, Wisconsin, 2001.

Fan, Shenggen, and Peter Hazell, "Returns to Public Investments in the Less-favored Areas of India and China," *American Journal of Agricultural Economics*, 83(5): 1217-1222, 2001.

P. Hazell and G. S. Bhalla. Can India Continue to Feed Herself. In *Sustainability of Agricultural Systems in Transition*. Edited by William Payne, Dennis Keeney and Srinivas Rao. American Society of Agronomy Special Publication Number 64,, Madison, Wisconsin, 2001.

Property Rights, Collective Action, and Technologies for Natural Resource Management: A Conceptual Framework. Anna Knox, Ruth Meinzen-Dick and Peter Hazell. In *Innovation in Natural Resource Management; The Role of Property Rights and Collective Action in Developing Countries*. Ruth Meinzen-Dick, Anna Knox, Frank Place and Brent Swallow (eds.). Johns Hopkins University Press for IFPRI, 2002.

Peter Hazell. "Priorities for Policy Reform in Indian Agriculture". In *Food Security and Environmental Quality in the Developing World*. Rattan Lal, David Hansen, Norman Uphoff and Steven Slack (eds.). CRC Press LLC, Boca Raton, Florida, USA. 2002.

Hazell, P. The Green Revolution. *Oxford Encyclopedia of Economic History*. Oxford, 2003.

Bhalla, G. S., and P. Hazell. Rural Employment and Poverty; Strategies to Eliminate Rural Poverty within a Generation. *Economic and Political Weekly*, 38 (33): 3473-84, 2003.

Johnson, M., P. Hazell and A. Gulati. The Role of Intermediate Factor Markets in Asia's Green revolution: Lessons for Africa? *American Journal of Agricultural Economics*, 85(5): 1211-1216, 2003.

Hazell, P.B.R. The impact of agricultural research on the poor: A review of the state of knowledge. In: Mathur, S.; Pachico, D. Agricultural research and poverty reduction: Some issues and evidence. Economics and Impact Series 2. Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia. p. 43-58, 2003.

Hazell, P. Is there a Future for Small Farms? 25th Proceedings of the International Conference of Agricultural Economists. Blackwell Publishing, 2004.

Hazell, Peter and Mark Rosegrant. Policy challenges for the rice-wheat farming systems of the Indo-Gangetic Plains. In *Sustainable Agriculture and the International Rice-Wheat System*, edited by Rattan Lal, Peter Hobbs, Norman Uphoff and David Hansen. Marcel Dekker, Inc. New York and Basel. 2004.

Published Reports

Hazell, P.B.R. Instability in Indian Foodgrain Production. Research Report 30, International Food Policy Research Institute, Washington, D.C., May, 1982.

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Holden, D., P.B.R.- Hazell and A. Pritchard (eds.). Risk in Agriculture: Proceedings of the Tenth Agricultural Sector Symposium. World Bank, 1991.

Co-Author of the The Forest Sector: A World Bank Policy Paper . World Bank, 1991.

Fan, S., P. Hazell and S. Thorat. Linkages between Government Spending, Growth and Poverty in Rural India. Research Report 110, International Food Policy Research Institute, Washington DC. 1999.

Bhalla, G. S., Peter Hazell and John Kerr. Prospects for India's Cereal Supply to 2020. Food, Agriculture, and the Environment Discussion Paper 29. Washington, DC: International Food Policy Research Institute, November, 1999.

Chaherli, N., P. Hazell, T. Ngaido, T. Nordblom, and P. Oram (eds.). Agricultural Growth, Sustainable Resource Management, and Poverty Alleviation in the Low Rainfall Areas of West Asia and North Africa. Proceedings of International Conference held from 2-6 September 1997 in Amman, Jordan. DSE, Germany. 1999.

Knox-McCulloch, A., S. Babu, and P. Hazell (eds.). Strategies for Poverty Alleviation and Sustainable Resource Management in the Fragile Lands of Sub-Saharan Africa. Proceedings of International Conference on Strategies for Poverty Alleviation and Sustainable Resource Management in the Fragile Lands of Sub-Saharan Africa, held from May 25-29, 1998 in Entebbe, Uganda. DSE, Germany. 1999.

McCarthy, N., B. Swallow, M. Kirk and P. Hazell (eds.). Property Rights, Risk, and Livestock Development in Africa. IFPRI, 1999.

Co-author of Rural Asia: Beyond the Green Revolution. Asian Development Bank. 2000.

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Books

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Rosegrant, M., and P. Hazell. Transforming the Rural Asian Economy: The Unfinished Revolution. Oxford University Press, Hong Kong, for the Asian Development Bank. 2000.

Lutz, E., H Binswanger, P. Hazell, and A. McCalla. Agriculture and the Environment:

Perspectives on Sustainable Rural Development. A World Bank Symposium. The World Bank, Washington, D.C., 1998

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BOOK REVIEWS

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