ICOP AND ICOP-RELATED* PUBLICATIONS

of the Groningen Growth and Development Centre, Faculty of Economics, University of Groningen

1983

A. Maddison, "A Comparison of Levels of GDP per Capita in Developed and Developing Countries, 1700-1980", in *Journal of Economic History*, March, 1983.

1984

- A. Maddison, "Possibilities for Standardising UNIDO Valuation Methods for Value Added in Manufacturing", UNIDO, Vienna, August 1984.
- H. van Ooststroom and A. Maddison, "An International Comparison of Levels of Real Output and Productivity in Agriculture in 1975", Research Memorandum, no. 162, Institute of Economic Research, University of Groningen, 1984. A revised version of the text and a much larger annex were presented at the August 1985 Noordwijkerhout meeting of the International Association for Research in Income and Wealth (IARIW).

1985

P. Wieringa and A. Maddison, *An International Comparison of Levels of Real Output in Mining and Quarrying in 1975*, Groningen 1985 (mimeographed).

1986

A. Maddison, "Problems of Measuring Levels and Growth of Productivity in Manufacturing", Report to UNIDO, Vienna, December 1986.

1987

A. Maddison and B. van Ark, "The International Comparison of Real Output, Purchasing Power and Labour Productivity in Manufacturing Industries: A Pilot Study for Brazil, Mexico and the USA for 1975", *Research Memorandum*, no. 231, Institute of Economic Research, Groningen University, 1987. A detailed statistical appendix with full detail of the calculations is also available.

- B. van Ark, "Labour Productivity in Manufacturing: A Comparison of Brazil and the United Kingdom for 1975", *Research Memorandum*, no. 259, Institute of Economic Research, Groningen University, 1988.
- A. Maddison and B. van Ark, *Comparisons of Real Output in Manufacturing*, Policy, Planning and Research Working Papers, WPS5, World Bank, Washington DC, April 1988.
- A. Maddison and B. van Ark, "Comparison of Real Output and Purchasing Power Brazil/USA and Mexico/USA", in J. Salazar-Carrillo and D.S. Prasada Rao, eds., *World Comparison of Incomes, Prices and Product*, North Holland, Amsterdam, 1988.

A. Maddison and B. van Ark, "International Comparison of Purchasing Power, Real Output and Labour Productivity: A Case Study of Brazilian, Mexican and US Manufacturing in 1975", in: *Review of Income and Wealth*, March, 1989.

1990

- * B. van Ark, "Comparative Levels of Labour Productivity in Dutch and British Manufacturing", *National Institute Economic Review*, February 1990.
- * B. van Ark, "Manufacturing Productivity Levels in France and the United Kingdom", National Institute Economic Review, London, August 1990.
 - B. van Ark, "Comparative Levels of Labour Productivity in Postwar Europe Measurement and Comparisons", *Oxford Bulletin of Economics and Statistics*, November 1990.
 - A. Houben, "An International Comparison of Real Output, Labour Productivity and Purchasing Power in the Mineral Industries of the United States, Brazil and Mexico, *Research Memorandum*, No. 368, Institute of Economic Research, Groningen.
- * C.L.J. van der Meer and S. Yamada, *Japanese Agriculture in Economic Comparative Perspective*, Croom Helm, 1990.
 - D. Pilat and A. Hofman, "Argentina's Manufacturing Performance: A Comparative View", *Research Memorandum*, no. 374, Groningen, July 1990. A detailed statistical appendix is available.
 - D. Pilat and A. Hofman, "Productivity and Competitiveness in the Manufacturing Sector of Argentina, 1973-1985", in: J. Salazar-Carrillo and D.S. Prasada Rao (eds.), *Comparison and Prices of Real Products in Latin America*, Amsterdam, North Holland, 1990.
 - A. Szirmai and D. Pilat, "The International Comparison of Real Output and Labour Productivity in Manufacturing: A Study for Japan, South Korea and the USA for 1975", *Research Memorandum*, no. 354, Institute of Economic Research, Groningen, February 1990. A detailed statistical appendix is available.
 - A. Szirmai and D. Pilat, "Comparisons of Purchasing Power, Real Output and Labour Productivity in Manufacturing in Japan, South Korea and the USA, 1975-1985", *Review of Income and Wealth*, series 36, no. 1, March 1990.

- B. van Ark, "International Comparisons of Purchasing Power, Real Output and Labour Productivity", paper presented at Seminar on International Comparisons of Output and Productivity, OECD Development Center, 14 June 1991, Paris.
- B. van Ark, "Manufacturing Productivity in India: A Level Comparison in an International Perspective, *IDPAD Occasional Papers and Reprints*, no. 5, Indo-Dutch Alternatives in Development, The Hague, September 1991.
- B. van Ark, "Productivity Measurement in Manufacturing: A Review of ICOP Estimates", *Productivity Improvement through Labor Management Cooperation and Technology Innovation*, Korea Productivity Center, December 1991, pp. 115-142.

- D.P. Bhatia and B. van Ark, "The Capital Stock in Indian Manufacturing: Estimates and International Comparisons", *IDPAD Occasional Papers and Reprints*, no. 4, Indo-Dutch Alternatives in Development, The Hague, July 1991.
- S.N. Broadberry and B. van Ark, "Convergence and Divergence of Comparative Productivity: A Long Term Study of Europe and the USA", paper presented to the First European Analytical Economic History/Historical Economics Conference, Copenhagen, July 1991.
- D. Pilat, "Levels of Real Output and Labour Productivity by Industry of Origin, A Comparison of Japan and the United States, 1975 and 1970-1987", Research Memorandum, No. 408, Institute of Economic Research, Groningen, February 1991.
- D. Pilat, "Productivity Growth in South Korean Manufacturing: A Comparative Perspective, 1953-1988", *Research Memorandum*, no. 435, Groningen, August 1991.
- D. Pilat and D.S. Prasada Rao, "A Multilateral Approach to International Comparisons of Real Output, Productivity and Purchasing Power Parities in Manufacturing", *Research Memorandum*, no. 440, Groningen, September 1991.
- D. Pilat and B. van Ark, "Productivity Leadership in Manufacturing, Germany, Japan and the United States, 1973-1989", Research Memorandum, no. 456, Institute of Economic Research, Groningen, December 1991, updated version, March 1992.

- B. van Ark, "Comparative Productivity in British and American Manufacturing", *National Institute Economic Review*, November 1992.
- B. van Ark and N.M. Beintema, "Output and Productivity Levels in Czechoslovak and German (FR) Manufacturing", paper presented at 2nd EACES Conference, Groningen, 24-26 September 1992.
- D.S. Prasada Rao, E.A. Selvanathan and D. Pilat, "Generalised Theil-Tonqvist Indices for International Comparisons, with Applications", 1992.

- B. van Ark, "The ICOP Approach Its Implications and Applicability", in A. Szirmai, D. Pilat and B. van Ark, eds., *Explaining Economic Growth: Essays in Honour of Angus Maddison*, Elsevier, North Holland.
- B. van Ark, *International Comparisons of Output and Productivity*, Ph.D. thesis, University of Groningen, April 1st, 1993, Groningen Growth and Development Centre, Monograph Series, No. 1, 1993.
- B. van Ark, "Comparative Output and Productivity in Spanish Manufacturing, 1900-1990", paper presented at SPES/EHES Conference, Coruña, Spain, July 1993.
- B. van Ark and D. Pilat, "Cross Country Productivity Levels: Differences and Causes", *Brookings Papers on Economic Activity (Microeconomics 2)*, 1993, pp. 1-69.
- N. Beintema and B. van Ark, "Comparative Productivity in East and West German Manufacturing Before Reunification", *Research Memorandum*, *GD-5*, Groningen Growth and Development Centre, October 1993.
- R.D.J. Kouwenhoven, "Analysing Dutch Manufacturing Productivity", May 1993.

- A. Maddison and B. van Ark, "International Comparisons of Real Product and Productivity", paper presented at the American Economic Association, January 1993, Anaheim, California.
- A. Maddison and H. van Ooststroom, "The International Comparison of Value Added, Productivity and Purchasing Power Parities in Agriculture in 1975", Research Memorandum GD-1, Groningen Growth and Development Centre, August 1993.
- N. Mulder and A. Maddison, The International Comparison of Performance in Distribution: Value Added, Labour Productivity and PPPs in Mexican and US Wholesale and Retail Trade 1975/7", *Research Memorandum GD-2*, Groningen Growth and Development Centre, July 1993.
- D. Pilat, *The Economics of Catch-Up: The Experience of Japan and Korea*, Ph.D.thesis, University of Groningen, November 18th, 1993, Groningen Growth and Development Centre, Monograph Series, No. 2, 1993.
- D. Pilat, "The Sectoral Productivity Performance of Japan and the United States,1885-1990", *Review of Income and Wealth*, December 1993, pp. 1-19.
- D. Pilat, D.S. Prasada Rao and W. Shepherd, "Comparison of Real Output, Productivity Levels and Purchasing Power in Australia/US Manufacturing 1970-1989", COPPAA Research Paper, No. 1, Centre for the Study of Australia-Asia Relations, Griffith University, Brisbane, 1993
- A. Szirmai, "Comparative Productivity in Manufacturing: A Case Study for Indonesia", A. Szirmai, D. Pilat and B. van Ark, eds., *Explaining Economic Growth: Essays in Honour of Angus Maddison*, Elsevier, North Holland.
- A. Szirmai, "Comparative Performance in Indonesian Manufacturing, 1975-1990", Research Memorandum GD-3, Groningen Growth and Development Centre, August 1993.

- B. van Ark and A. Maddison, "An International Comparison of Real Output, Purchasing Power and Labour Productivity in Manufacturing Industries: Brazil, Mexico and the USA in 1975", second edition, *Research Memorandum GD-8*, Groningen Growth and Development Centre.
- B. van Ark and R.D.J. Kouwenhoven, "Productivity in French Manufacturing: An International Comparative Perspective", *Research Memorandum GD-10*, Groningen Growth and Development Centre. Also in French: "La productivité du secteur manufacturier français en comparaison internationale", *Économie Internationale*, no. 60, CEPII, Paris.
- H. Gersbach and B. van Ark, "Micro Foundations for International Productivity Comparisons", *Research Memorandum GD-11*, Groningen Growth and Development Centre, 1994
- G. de Jong, "An International Comparison of Real Output and Labour Productivity in Ecuador and the United States", *Research Memorandum GD-7*, Groningen Growth and Development Centre, 1994
- A. Maddison and B. van Ark, "International Comparisons of Real Output and Productivity", *Research Memorandum GD-6*, Groningen Growth and Development Centre, Paris, 1994.

- * M. Maliranta (1994), "Comparative Levels of Labour Productivity in Swedish, Finnish and American Manufacturing", Helsinki School of Economics, mimeographed, 1994.
 - N. Mulder, "New Perspectives on Service Ouptut and Productivity: A Comparison of French and US Productivity in Transport, Communications, Wholesale and Retail Trade", *Research Memorandum GD-14*, Groningen Growth and Development Centre. Also in French: "La productivité de travail dans les services en France et aux États-Unis", *Économie Internationale*, No. 60, CEPII, Paris, 1994.
 - N. Mulder, "Output and Productivity in Brazilian Distribution: A Comparative View", *Research Memorandum GD-17*, Groningen Growth and Development Centre.
 - N. Mulder, "Transport and Communication in Mexico and the United States: Value Added, Purchasing Power Parities and Productivity", *Research Memorandum GD-18*, Groningen Growth and Development Centre.
- * L. Peres Lopes, "Manufacturing Productivity in Portugal in a Comparative Perspective", Notas Económicas, no. 4, Universidade de Coimbra, November 1994
 - D. Pilat, *The Economics of Rapid Growth: The Experience of Japan and Korea*, Edward Elgar Ltd., 1994.
 - D. Pilat, "Comparaisons internationales des productivités: une introduction", *Économie Internationale*, No. 60, CEPII, Paris, 1994.
 - D. Pilat and B. van Ark, "Competitiveness in Manufacturing: A Comparison of Germany, Japan and the United States", *Banca Nazionale del Lavoro Quarterly Review*, No. 189, June 1994.
 - A. Szirmai, "Real Output and Labour Productivity in Indonesian Manufacturing, 1975-1990", *Bulletin of Indonesian Economic Studies*, August 1994.

- B. van Ark, "Manufacturing prices, productivity and labor costs in five economies", *Monthly Labor Review*, July, pp. 56-72.
- B. van Ark, "Produccion y productividad en el sector manufacturero español. Un analisis comparativo 1950-1992", *Información Comercial Española. La actividad empresarial en España*, Madrid, October, no. 746, pp. 67-77.
- B. van Ark, "The Manufacturing Sector in East Germany: A Reassessment of Comparative Productivity Performance, 1950-1988", *Jahrbuch für Wirtschaftsgeschichte*, no. 2, pp. 75-100
- B. van Ark, "Sectoral Growth Accounting and Structural Change in Postwar Europe", *Research Memorandum GD-23*, Groningen Growth and Development Centre.
- A. Maddison, *Monitoring the World Economy, 1820-1992*, OECD Development Centre, Paris
- N. Mulder, "Transport and Communications Output and Productivity in Brazil and the USA, 1950-90", *Research Memorandum GD-19*, Groningen Growth and Development Centre, University of Groningen.
- N. Mulder, "Output and Productivity in Brazilian Distribution: A Comparative View", Revista Indicadores da Qualidade e Productividade, IPEA, 1995
- N. Mulder, "Long Term Growth and Performance of Mexican Health Care in International Perspective", in D. Papousek and R. Barriga Villanueva (eds.),

- Actas del encuentro de Mexicanistas en Holanda, 1994, University of Groningen Press and El Colegio de Mexico, 1995b.
- D. Pilat, "Comparative Productivity of Korean Manufacturing, 1967-1987", *Journal of Development Economics*, Vol. 46, pp. 123-144, 1995
- D.S. Prasada Rao, E.A. Selvanathan and D. Pilat, "Generalized Theil-Tornqvist Indices for International Comparisons with Applications", *Review of Economics and Statistics*, Vol. LXXVII, No. 2, pp. 352-360, 1995.
- D.S. Prasada Rao, W.F. Shepherd and D. Pilat, "Real Output and Productivity in Australian Manufacturing: An International Perspective, 1970-1989", *Australian Bulletin of Labour*, Vol. 21, No. 2, pp. 123-150, June 1995.
- A. Szirmai and R. Ruoen, "Chinese Manufacturing Performance in a Comparative Perspective, 1975-1990", *Research Memorandum GD-20*, Groningen Growth and Development Centre, University of Groningen.

- R. Albers, B. van Ark and M. Rensman, "Capital Intensity and Productivity Performance in the UK and the USA, 1840-1990. Revisiting the Empirical Evidence on 150 Years of Technological Leadership", Groningen Growth and Development Centre, mimeographed.
- B. van Ark, "Sectoral National Accounts and Structural Change in Postwar Europe", in B. van Ark and N.F.R. Crafts, eds., *Quantitative Aspects of Postwar Economic Growth in Europe*, Cambridge University Press, pp. 84-164.
- B. van Ark, "Convergence and Divergence in the Europan Periphery: Productivity in Eastern and Southern Europe in Retrospect", in B. van Ark and N.F.R. Crafts, eds., *Quantitative Aspects of Postwar Economic Growth in Europe*, Cambridge University Press, pp. 271-326.
- B. van Ark, "Productivity and Competitiveness in Manufacturing: A Comparison of Europe, Japan and the United States", in K. Wagner and B. van Ark, eds., *International Productivity Differences: Measurement and Explanations*, North Holland, pp. 23-52.
- B. van Ark, "Issues in Measurement and International Comparison of Productivity An Overview", in OECD, *Industry Productivity. International Comparison and Measurement Issues*, OECD Proceedings, Paris.
- B. van Ark and E.J. Monnikhof, "Size Distribution of Output and Employment: A Data Set for Manufacturing Industries in Five OECD Countries, 1960s-1990", *Economics Department Working Papers*, no. 166, OECD, Paris
- B. van Ark, E.J. Monnikhof and M.P. Timmer, "Prices, Quantities and Productivity in Industry: A Study of Transition Economies in a Comparative Perspective", Paper presented at Conference on Research in Income and Wealth on "International and Interarea Comparisons of Prices, Income and Output", NBER, Washington D.C., 15 and 16 March 1996.
- M. Freudenberg and D. Ünal-Kesenci, "French and German Productivity Levels in Manufacturing", in K. Wagner and B. van Ark, eds., *International Productivity Differences: Measurement and Explanations*, North Holland, pp. 23-52.
 - E. Horlings and B. van Ark, "Benchmark Comparisons of Manufacturing Productivity in Eastern Europe, 1937-1989", paper presented at pre-conference on "Historical Benchmark Comparisons of Output and Productivity, 1750-1990", Leuven, 29-30 November 1996.

- R.D.J. Kouwenhoven, "A Comparison of Soviet and US Industrial Performance", *Research Memorandum GD-29*, Groningen Growth and Development Centre, University of Groningen.
- B. Liberda, E.J. Monnikhof and B. van Ark, "Manufacturing Productivity Performance in Poland and West Germany in 1989", *Economic Discussion Papers No. 25*, University of Warsaw, 1996
- A. Maddison and D.S. Prasada Rao, "A Generalized Approach to International Comparisons of Agricultural Output and Productivity", *Research Memorandum GD-27*, Groningen Growth and Development Centre, University of Groningen.
- E.J. Monnikhof, "Productivity Performance in Manufacturing in Hungary and West Germany, 1987", Groningen Growth and Development Centre, University of Groningen, mimeographed.
- N. Mulder, "The Measurement of Performance in Distribution, Transport and Communications: The ICOP Approach to Brazil, Mexico, France and the USA", Paper presented at Conference on Research in Income and Wealth on "International and Interarea Comparisons of Prices, Income and Output", NBER, Washington D.C., 15 and 16 March 1996.
- D. Pilat, "Productivity in a Dual Economy", in K. Wagner and B. van Ark, eds., *International Productivity Differences: Measurement and Explanations*, North Holland.
- D. Pilat and D.S. Prasada Rao (1996), "Multilateral Comparisons of Output, Productivity and Purchasing Power Parities in Manufacturing, *Review of Income and Wealth*, series 42, no. 2, June, pp. 113-130.
- D. Pilat, "Comparative Price and Productivity Levels: Korea and the United States, 1963-1990", in D.S. Prasada Rao and J. Salazar-Carillo (eds.) *International Comparisons of Prices, Output and Productivity*, North Holland, Amsterdam, pp. 91-118.
- M.P. Timmer and B. Lee, "China's Manufacturing Performance from an Australian Perspective (1980-1991)", COPPAA Series, No. 3, Centre for the Study of Australia-Asia Relations, Griffith University, Brisbane, Australia, October 1996. (52 pp.).

- B. van Ark and E.J. Monnikhof, *The Industry of Origin Approach to Comparisons of Output and Productivity*, Report of a Methodological Study on Unit Value Ratios, Comparative Levels of Output and Productivity in EU Countries and the United States, commissioned by the Industry Statistics Division, Eurostat, Luxembourg, February 1997
- B. van Ark, E.J. Monnikhof and N. Mulder, "Productivity and Innovation in Services: An International Comparative Perspective", paper presented at conference on "Service Sector Productivity and the Productivity Paradox", Center for the Study of Living Standards, Ottawa (Canada), 14-15 February and 11-12 April 1997.
- * The Conference Board, Perspectives on a Global Economy. Understanding Differences in Economic Performance, Report 1187-97-RR, Summer 1997
- * The Conference Board, *Perspectives on a Global Economy. Technology, Productivity and Growth: U.S. and German Issues*, Report 1206-97-RR, Winter 1997

- A. Hofman and N. Mulder, "The Comparative Productivity Performance of Brazil and Mexico, 1950-94", paper presented at conference "Latin America and the World Economy in the Ninewteenth and Twentieth Centuries: Explorations in Quantitative Economic History", Belaggio, 30 June -4 July.
- G.J. de Jong, "Canada's Postwar Manufacturing Performance. A Comparison with the United States", *Research Memorandum GD-32*, Groningen Growth and Development Centre, University of Groningen.
- H.J. de Jong and T. Soete, 'Comparative Productivity and Structural Change in Belgian and Dutch Manufacturing Productivity 1937-1987', *Research Memorandum GD-36*, Groningen Growth and Development Centre, University of Groningen
- B. Lee, "A Comparison of Output, Purchaing Power and Productivity in Indian and Chinese Manufacturing in the mid 1980s", paper presented at conference on "The Asian Economies in the Twentieth Century: An Australian Perspective", Griffith University, Brisbane, November 1997.
- A. Maddison, "Comparing Levels and Growth of Manufacturing Value Added in China, India, Japan and USA, 1952-1994", paper presented at conference on "The Asian Economies in the Twentieth Century: An Australian Perspective", Griffith University, Brisbane, November 1997.
- P.H. vanMulligen, "International Comparisons of Purchasing Power Parities and Costs in Construction: An Evaluation of Alternative Methods", Groningen Growth and Development Centre, mimeographed
- D.S. Prasada Rap and Boon Lee, "Agricultural Sector Performance in Selected Asian-Pacific Countries, 1961-1994", paper presented at conference on "The Asian Economies in the Twentieth Century: An Australian Perspective", Griffith University, Brisbane, November 1997.
- * R. Ruoen, *China's Economic Performance in International Perspective*, OECD Development Centre, Paris.
 - W. Shepherd and D.S. Prasada Rao, "Manufacturing Sector Output and Productivity in Korea: An Australian Perspective", paper presented at conference on "The Asian Economies in the Twentieth Century: An Australian Perspective", Griffith University, Brisbane, November 1997.
 - M.P. Timmer, "Taiwan's Manufacturing Performance. An International Comparison, 1960-1994", forthcoming.
 - M.P. Timmer, "On the Reliability of Unit Value Ratios in International Comparisons", *Research Memorandum GD-31*, Groningen Growth and Development Centre, University of Groningen.
 - M.P. Timmer and A. Szirmai, "Growth and Divergence in Manufacturing Performance in South and East Asia", *Research Memorandum GD-37*, Groningen Growth and Development Centre, University of Groningen.
 - M.P. Timmer and A. Szirmai, "Australian Manufacturing Performance in an Asian Perspective", paper presented at conference on "The Asian Economies in the Twentieth Century: An Australian Perspective", Griffith University, Brisbane, November 1997.
 - Harry X. Wu, "Reconstructing Chinese GDP According to the National Accounts Concept of Value Added: the Industrial Sector, 1949-94", *SOM Research Report 97C24*, University of Groningen.

1998 (partly forthcoming)

- B. van Ark, E.J. Monnikhof and N. Mulder, "Productivity in Services: An International Comparative Perspective", *Canadian Journal of Economics*, forthcoming.
- R.D.J. Kouwenhoven and B. van Ark, *Productivity Performance and Potential of the Independent States of the Former Soviet Union*, Monograph Series, Groningen Growth and Development Centre, forthcoming
- * The Conference Board, *Perspectives on a Global Economy. Asia after the Crisis:*Challenges for a Return to Fast Pace Growth, Summer 1998, forthcoming
 - A. Hofman, Latin American Economic Development. A Causal Analysis in Historical Perspective, Monograph Series no. 3, Groningen Growth and Development Centre.
 - A. Maddison, *The Chinese Economy in the Long Run*, OECD Development Centre, Paris, 1998.
 - A. Maddison, "Measuring the Performance of a Communist Command Economy: An Assessment of CIA Estimates for the USSR", *Review of Income and Wealth*, September 1998.
 - A. Maddison, "Causal Influences on Productivity Performance I820-I992: A Global Perspective", *Journal of Productivity Analysis*, forthcoming, I998.
 - M.P. Timmer, "Indonesia's Ascent on the Technology Ladder. Capital Stcok and Total Factor Productivity Levels in Indonesian Manufacturing, 1975-1995", forthcoming.