

THE LONG RUN BEHAVIOR OF THE INCOME VELOCITY OF MONEY IN FIVE ADVANCED COUNTRIES, 1870–1975: AN INSTITUTIONAL APPROACH

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Abstract

The income velocity of money in Canada, the United States, Great Britain, Norway and Sweden displays a U-shaped pattern over the last one hundred years. This paper presents and tests empirically an explanation for this secular pattern emphasizing the influence on velocity of institutional changes. The inclusion into a simple velocity function of institutional developments such as the process of monetization, the spread of commercial banking, financial development and the growth of economic stability improves the explanation of long-run movements in velocity provided by a regression of velocity on real permanent income per head and the interest rate.

References

Adie, D., "The English Money Stock, 1834–1844," *Explorations in Economic History*, 9, no. 2., 1971, p. 111–143.

[Web of Science®](#) | [Google Scholar](#)

Barkai, H., "The Macroeconomics of Tsarist Russia in the Industrialization Era: Monetary Developments, the Balance of Payments and the Gold Standard," *Journal of Economic History*, March, 1973, p. 339–371.

[Google Scholar](#)

Baumol, W., "The Transactions Demand for Cash: An Inventory Theoretic Approach," *Quarterly Journal of Economics*, November, 1952.

[Web of Science®](#) | [Google Scholar](#)

Bordo, M. D., and Jonung, L., "The Long Run Behavior of the Income Velocity of Money; A Cross Country Comparison of Five Advanced Countries 1870–1975," Seminar Paper 1978: 53 Department of Economics, Lund University.

[Google Scholar](#)

Cameron, R., *Banking in the Early Stages of Industrialization*, Oxford University Press, London 1967.

[Google Scholar](#)

Cameron, R., *Banking and Economic Development*, Oxford University Press, London , 1972.

[Google Scholar](#)

Cagan, P., *Determinants and Effects of Changes in the Stock of Money: 1875-1960*, New York NBER 1965.

[Google Scholar](#)

Chandavarkar, A. G., "Monetization of Developing Economics," *IMF Staff Papers*, XXIV, Nov. 1977, p. 665-721.

[Google Scholar](#)

Clower, R. W., " Introduction," *Monetary Theory*, Penguin Modern Readings, London , 1969.

[Google Scholar](#)

Darby, M., "The Allocation of Transitory Income Among Consumers' Assets," *American Economic Review*, LXII, no. 5, Dec. 1972.

[Google Scholar](#)

Deane, P., "New Estimates of Gross National Product for the United Kingdom, 1830-1914," *Review of Income and Wealth*, XIV, no. 2, June 1968, p. 95-112.

[Google Scholar](#)

Doblin, E. M., "The Ratio of Income to Money Supply: An International Survey," *Review of Economics and Statistics*, 1951.

[Web of Science®](#) | [Google Scholar](#)

Ezekiel, H., and Adekunle, J. O., "The Secular Behavior of Income Velocity: An International Cross-Section Study," *IMF Staff Papers*, July 1969, p. 224-237.

[Web of Science®](#) | [Google Scholar](#)

Fisher, I., " *Appreciation and Interest*," Publications of the American Economic Association, 2, 1891, p. 337-443.

[Google Scholar](#)

Fisher, I., *The Purchasing Power of Money*, (1911), A. M. Kelly, New York , 1971.

[Google Scholar](#)

Fleetwood, E. E. Jucker, "The Key Role of the Velocity of Circulation of Money and Credit," *Oxford Economic Papers*, October 1958, p. 240–315.

[Google Scholar](#)

Friedman, M., *A Theory of the Consumption Function*, New York NBER, 1957.

[Web of Science®](#) | [Google Scholar](#)

Friedman, M., "The Demand for Money: Some Theoretical and Empirical Results," *Journal of Political Economy*, 67, no. 4, August 1959.

[Web of Science®](#) | [Google Scholar](#)

Friedman, M., and Schwartz, A., *A Monetary History of the United States*, Princeton University Press, Princeton , N. J. , 1963.

[Google Scholar](#)

Friedman, M., "Monetary Trends in the United States and the United Kingdom," *The American Economist*, 1972.

[Google Scholar](#)

Garvey, G., *Deposit Velocity and Its Significance*, Federal Reserve Bank of New York, New York , 1970.

[Google Scholar](#)

Garvey, G., and Blyn, M., *The Velocity of Money*, Federal Reserve Bank of New York, New York , 1970.

[Google Scholar](#)

Goldfeld, S. M., "The Demand for Money Revisited," *Brookings Papers on Economic Activity*, no. 3, 1973, p. 577–646.

[Web of Science®](#) | [Google Scholar](#)

Goldsmith, R., *Financial Structure and Development*, Yale University Press, New Haven , 1969.

[Google Scholar](#)

Graves, P., "New Evidence on Income and the Velocity of Money," *Economic Inquiry*, XVI, January 1978, pp. 53-68.

[Google Scholar](#)

Gurley, J., and Shaw, E., *Money in a Theory of Finance*, Brookings Institution, Washington, 1960.

[Google Scholar](#)

Isakson, A. J., *The Demand for Money in Norway*, Oslo, 1976.

[Google Scholar](#)

Jonung, L., "The Long Run Demand for Money: A Wicksellian Interpretation," *Scandinavian Journal of Economics*, 80, no. 2, 1978, p. 216-230.

[Web of Science®](#) | [Google Scholar](#)

Jonung, L., "The Behavior of Velocity in Sweden, 1871-1913," UCLA Money Workshop, May 1976.

[Google Scholar](#)

Kaufman, G. G., and Latta, C. M., "The Demand for Money: Preliminary Evidence from Industrial Countries," *Journal of Financial and Quantitative Analysis*, 1, no. 3, September 1966, p. 75-89.

[Web of Science®](#) | [Google Scholar](#)

Khoury, M., and Myhrman, J., "Econometric Analysis of the Demand for Money in Sweden: 1909-1968," mimeo. Department of Economics, University of Stockholm, 1972.

[Google Scholar](#)

Klein, B., "Competitive Interest Payments on Bank Deposits and the Long Run Demand for Money," *American Economic Review*, 64, December 1974, p. 931-949.

[Web of Science®](#) | [Google Scholar](#)

Klein, B., "Our New Monetary Standard: The Measurement and Effects of Price Uncertainty, 1800-1971," *Economic Inquiry*, December 1975.

[Web of Science®](#) | [Google Scholar](#)

Klein, B., "The Demand for Quality Adjusted Cash Balances: Price Uncertainty in the U. S. Demand for Money Function," *Journal of Political Economy*, August 1977.

[Web of Science®](#) | [Google Scholar](#)

Klovland, J. T., "Quantitative Studies in the Monetary History of Norway," Part III, unpublished manuscript, Norwegian School of Economics and Business Administration, Bergen, August 1978.

[Google Scholar](#)

Laidler, D., *The Demand for Money: Theories and Evidence*, Second edition, Dun Donnelley, New York, 1977.

[Google Scholar](#)

Latane, H., "Cash Balances and the Interest Rate — A Pragmatic Approach," *Review of Economics and Statistics*, November 1954.

[Google Scholar](#)

Lybeck, J. A., "Issues in the Theory of the Long-Run Demand for Money," *Scandinavian Journal of Economics*, 77, 1975, p. 193-206.

[Web of Science®](#) | [Google Scholar](#)

Macesich, G., "The Demand for Currency and Taxation in Canada," *Southern Economic Journal*, 29, 1962, p. 33-36.

[Web of Science®](#) | [Google Scholar](#)

Melitz, J., and Correa, H., "International Differences in Income Velocity," *Review of Economics and Statistics*, LII, no. 1, February 1970, p. 12-17.

[Web of Science®](#) | [Google Scholar](#)

Perlman, M., "International Differences in Liquid Assets Portfolios," in D. Meiselman (ed.), *The Varieties of Monetary Experience*, Chicago : University of Chicago Press, 1970.

[Google Scholar](#)

Schwartz, A. J., "Monetary Trends in the United States and the United Kingdom, 1878-1980: Selected Findings," *Journal of Economic History*, March 1975.

[Web of Science®](#) | [Google Scholar](#)

Stauffer, R. F., "A Reinterpretation of Velocity Trends in the United States, 1900-1920," *Journal of Money, Credit and Banking*, 10, no. 1, February 1978, p. 105-111.

[Web of Science®](#) | [Google Scholar](#)

Timberlake, R., "Denominational Factors in Nineteenth Century Currency Experience," *Journal of Economic History*, 34, September 1974, p. 835–850.

[Web of Science®](#) | [Google Scholar](#)

Tobin, J., "The Monetary Interpretation of History," *American Economic Review*, June 1965, p. 464–485.

[Web of Science®](#) | [Google Scholar](#)

Tobin, J., "The Interest-Elasticity of Transactions Demand for Cash," *Review of Economics and Statistics*, August 1956.

[PubMed](#) | [Web of Science®](#) | [Google Scholar](#)

Wicksell, K., *Lectures on Political Economy, vol. II*, London, 1935.

[Google Scholar](#)

Wicksell, K., *Interest and Prices*, London, 1936.

[Google Scholar](#)

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