

Identifying Monetary Policy Shocks in Japan¹

Etsuro Shioji²

*Department of Economics, Yokohama National University, 79-3 Tokiwadai, Hodogayaku,
Yokohama 240-8501, Japan*
E-mail: shioji@cms.ynu.ac.jp

Received April 30, 1998; revised August 19, 1999

Shioji, E.—Identifying Monetary Policy Shocks in Japan

It is sometimes argued that central banks influence the private economy in the short run by controlling a specific component of high-powered money, not its total amount. Using a structural VAR approach, this paper evaluates this claim empirically, in the context of the Japanese economy. I estimate a model based on the standard view that the central bank controls the total amount of high-powered money, and another model based on the alternative view that it controls only a specific component. It is shown that the former yields much more sensible estimates than the latter. *J. Japan. Int. Econ.* March 2000, **14**(1), pp. 22–42. Department of Economics, Yokohama National University, 79-3 Tokiwadai, Hodogayaku, Yokohama 240-8501, Japan. © 2000 Academic Press

Journal of Economic Literature Classification Numbers: E52, E58, C32.

1. INTRODUCTION

There have been debates in many countries over how central banks intervene in the private economy. Standard macroeconomic theories assume that the central bank influences the private economy by changing the total amount of high-powered money. But some economists argue differently: they claim that policy

¹ An earlier version of this paper appeared as CEPR Discussion Paper 1733 (April 1997).

² I am grateful to Christopher A. Sims for his discussion. I also thank Toni Braun, Fabio Canova, Hiroshi Fujiki, Akiyoshi Horiuchi, Jane Marrinan, David Prentice, Xavier Sala-i-Martin, Towa Tachibana, Yosuke Takeda, and Geoffrey E. Wood. I am grateful to two anonymous referees and the editor for detailed comments on the previous version of the paper. Research for this paper was partly financed by the Spanish Ministry of Education (through DGICYT Grant PB94-1095). The latest revision process was partly financed by the Japanese Ministry of Education (through a Scientific Research Grant or Kagaku Kenkyuhi Hojokin) and the Nikkei Foundation.

works by changing the amount of a specific component, not the total. For example, Goodfriend (1983) and Strongin (1995) emphasize the role of nonborrowed reserves in U.S. monetary policy. Bernanke and Mihov (1997) emphasize the role of discount-window borrowing quotas in German monetary policy. There are similar arguments in Japan: some economists claim that the Bank of Japan influences the private economy through the market for Bank of Japan loans, which are a component of high-powered money. This paper investigates this claim. I estimate two structural VAR models, one that represents the standard view that the Bank of Japan intervenes in the market for (total) high-powered money, and the other that represents the alternative view mentioned above. I ask three questions:

1. Does the Bank of Japan intervene in the market for *total* high-powered money, or does *a specific component* of high-powered money composed of central bank loans play a special role in its monetary policy?
2. Is the policy rule of the Bank of Japan best characterized as an interest rate targeting rule or a monetary aggregate targeting rule, or should it be considered a partial accommodation rule (mixed targeting)?
3. How large are contributions of monetary policy shocks to variations in output, consumption, investment, and the price level in Japan?

Results are as follows. First, evidence is decisively in favor of the standard view that the central bank intervenes in the market for total high-powered money. Bank of Japan loans do not play any special role. Second, the short-run policy rule of the central bank is neither pure interest rate targeting nor pure monetary aggregate targeting but is partial accommodation. Third, identified policy shocks have important effects on quantity variables such as output, but less important effects on the price level, especially in the short run. Finally, my estimates are free from some problems that are common to many existing studies, such as the liquidity puzzle and the price puzzle.

The rest of the paper is organized as follows. Section 2 discusses related literature. Section 3 explains the empirical method. Section 4 explains data. Section 5 describes the models. Section 6 discusses the results. Section 7 concludes.

2. OVERVIEW

2.1. Debate over the Role of the Bank of Japan Loans

There is a long-standing debate over the short-run behavior of the Bank of Japan. A good survey can be found in Iwata (1993). Some argue that the Bank intervenes in the market for *high-powered money* (hereafter H). Others argue the Bank intervenes in the market for *Bank of Japan loans* (hereafter BL) (Yokoyama (1977)). BL is a part of high-powered money that is supplied in the form of lending from the central bank to large commercial banks through the discount window.

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