

Keep in mind

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The authors propose a short run model for the monetary transmission mechanism in which the output

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gap is modelled as an unobserved variable. By estimating this model using maximum likelihood on a Kalman Filter, the authors find an estimate of the unobserved output gap as well as its estimation uncertainty. The performance of monetary rules is studied both with certainty on the output gap values as well as with estimation uncertainty. Although the estimated gap is more reasonable than some other estimates proposed for Colombia, it is estimated with a considerable amount of uncertainty. In fact, the gap is not significantly different from zero in all but five quarters. This result amounts to say that we can not be sure about the sign or value of the gap except when the economy faces an unusual rate of growth. Moreover, we found that potential output does not differ statistically from a linear trend, thus, the gap may be understood as deviations from a linear trend, being the money surprises the source of this deviations. This result may be due to the sample length. In addition, we estimated the optimal linear policy rule with and without uncertainty and used it as a benchmark to evaluate the Taylor rule and the historical data. By introducing output gap estimation uncertainty the variance of the target variables increases, and so the reaction of the authority is smaller. Finally, Colombian historical results resemble those of an economy under a Taylor rule with uncertainty.