

Modern Money Demand Function of Turkey: Income Components, Economic and Monetary Uncernainty

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Extensive Summary

Money demand, money demand function and the determinants of money demand have generally achieved attracting attentions from both economists and those are in the management of economics. The fact that money-holding behaviours of householders change in accordance with changes in life conditions keeps the subject of money demand alive in economics discipline. Especially, derivation of alternative valuation mechanisms by means of removal of barriers in front of financial movements between countries and development in technology increased the importance of estimating money demand function. At this point, considering there is a close relation between the controlling power of central banks on monetary balances and macroeconomic policies (Baharumshah vd.,2009,231), it is necessary for central banks to correctly estimate money demand function.

Vast majority of studies on the determinants of money demand or money demand function focused on real income, inflation, interest rates and exchange rate variables. In some studies real income was separated into its components, some other studies examined the effects of economic and monetary uncertainties. There seems to be a gap in the literature as, to our knowledge, there is no study accommodating both conventional and uncertainty variables at the same time.

Consequently, the short and-long run money demand function in Turkey, $\binom{M}{p} = f(y(FCE, EIG, EXP), srint, eer, vly, vlym)$ is derived from the one that Bahmani-Oskooee vd. (2012) and Ben-Salha and Jaidi (2014) used in their studies, and examined for the period of 1998:Q1-2015:Q2. In this broad money demand function; broad real money stock (M2/P), final consumption expenditures (FCE), expenditures on investment goods (EIG), exports of goods and services (EXP), short-run interest rate (SRINT), nominal effective exchange rate (EER), output volatility as the indicator of economic uncertainty (VLY), money supply volatility as the indicator of monetary uncertainty (VLYM) are employed.

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In this study, long-run money demand in Turkey was estimated with ARDL bounds testing which was developed by Pesaran, Shin and Smith (2001), whereas short-run dynamics were estimated by error correction model (ECM). Initially, ADF and DF-GLS stationarity tests were completed and first differences of all variables were to be stationary. Unit root tests supported the applicability of ARDL model. Money demand function was estimated with ARDL (6,4,3,4,4,4,4) method and F (Wald) test results indicated the existence of co-integrations between variables. Long-run elasticities, and short-run elasticities that based on error correction model are displayed in Table-1 below.

| STATISTICBREUSCH-GODFREY AUTOCORRELATION LM TEST11.35740.205BREUSCH-PAGAN-GODFREY HETEROSCEDASTICITY TEST2.97260.200GLEJSER HETEROSCEDASTICITY TEST1.33610.470WHITE HETEROSCEDASTICITY TEST1.39780.451ARCH HETEROSCEDASTICITY TEST0.82330.369 | | Long Run coeffi | cients | | |
|---|---|-------------------|---------|-------------|-------------|
| InEIG 0.052 0.3908 0.1332 0.9025 InEXP 0.9637 0.3458 2.7862 0.0686 InSRINT -0.3178 0.1248 -2.5448 0.0843 InEER -1.1108 0.1949 -5.6973 0.0107 InVLY -3.5899 0.4002 -8.9695 0.0029 InVLM 0.0208 0.0201 1.0373 0.3759 C 6.6380 23.4924 0.2825 0.7959 Short-Run coefficients Fror t-statistic Probability ΔlnFCE 10.0449 2.3094 4.3493 0.0034 ΔlnEIG -0.6210 0.3618 -1.7161 0.1298 ΔlnEXP -3.1637 0.9851 -3.2114 0.0148 ΔlnSRINT 0.3896 0.1760 2.2136 0.0625 ΔlnEER -0.2195 0.1974 -1.1119 0.3029 ΔlnVLY -1.5980 0.6713 -2.3802 0.0489 ΔlnVLM 0.1034 | | Coefficients | | t-statistic | Probability |
| InEXP 0.9637 0.3458 2.7862 0.0686 INSRINT -0.3178 0.1248 -2.5448 0.0843 InEER -1.1108 0.1949 -5.6973 0.0107 InVLY -3.5899 0.4002 -8.9695 0.0029 InVLM 0.0208 0.0201 1.0373 0.3759 C 6.6380 23.4924 0.2825 0.7959 Short-Run coefficients Standard Error t-statistic Probability ΔlnFCE 10.0449 2.3094 4.3493 0.0034 ΔlnEIG -0.6210 0.3618 -1.7161 0.1298 ΔlnERP -3.1637 0.9851 -3.2114 0.0148 ΔlnSRINT 0.3896 0.1760 2.2136 0.0625 ΔlnER -0.2195 0.1974 -1.1119 0.3029 ΔlnVLY -1.5980 0.6713 -2.3802 0.0489 ΔlnVLM 0.1034 0.0349 2.9567 0.0212 ECM _{t-1} < | InFCE | 5.604 | 1.309 | 4.2795 | 0.0234 |
| InSRINT -0.3178 0.1248 -2.5448 0.0843 InEER -1.1108 0.1949 -5.6973 0.0107 InVLY -3.5899 0.4002 -8.9695 0.0029 InVLM 0.0208 0.0201 1.0373 0.3759 C 6.6380 23.4924 0.2825 0.7959 Short-Run coefficients Marce Coefficients Standard Error t-statistic Probability ΔInFCE 10.0449 2.3094 4.3493 0.0034 ΔInEIG -0.6210 0.3618 -1.7161 0.1298 ΔInEXP -3.1637 0.9851 -3.2114 0.0148 ΔInSRINT 0.3896 0.1760 2.2136 0.0625 ΔInEER -0.2195 0.1974 -1.1119 0.3029 ΔInVLY -1.5980 0.6713 -2.3802 0.0489 ΔInVLM 0.1034 0.0349 2.9567 0.0212 <i>ECM</i> _{t-1} -11.9061 7.4574 -1.5965 | lnEIG | 0.052 | 0.3908 | 0.1332 | 0.9025 |
| InEER -1.1108 0.1949 -5.6973 0.0107 InVLY -3.5899 0.4002 -8.9695 0.0029 InVLM 0.0208 0.0201 1.0373 0.3759 C 6.6380 23.4924 0.2825 0.7959 Short-Run coefficients Standard Error t-statistic Probability ΔlnFCE 10.0449 2.3094 4.3493 0.0034 ΔlnEIG -0.6210 0.3618 -1.7161 0.1298 ΔlnEXP -3.1637 0.9851 -3.2114 0.0148 ΔlnER -0.2195 0.1974 -1.1119 0.3029 ΔlnER -0.2195 0.1974 -1.1119 0.3029 ΔlnVLY -1.5980 0.6713 -2.3802 0.0489 ΔlnVLM 0.1034 0.0349 2.9567 0.0212 ECM _{t-1} -11.9061 7.4574 -1.5965 0.1544 C -53.3239 24.6462 -2.1635 0.6673 BREUSCH-GODFREY AUTOCORRELATION LM TEST <td< td=""><td>lnEXP</td><td>0.9637</td><td>0.3458</td><td>2.7862</td><td>0.0686</td></td<> | lnEXP | 0.9637 | 0.3458 | 2.7862 | 0.0686 |
| InVLY -3.5899 0.4002 -8.9695 0.0029 InVLM 0.0208 0.0201 1.0373 0.3759 C 6.6380 23.4924 0.2825 0.7959 Short-Run coefficients Standard Error t-statistic Probability ΔlnFCE 10.0449 2.3094 4.3493 0.0034 ΔlnEIG -0.6210 0.3618 -1.7161 0.1298 ΔlnEXP -3.1637 0.9851 -3.2114 0.0148 ΔlnER -0.2195 0.1974 -1.1119 0.3029 ΔlnVLY -1.5980 0.6713 -2.3802 0.0489 ΔlnVLM 0.1034 0.0349 2.9567 0.0212 <i>ECM</i> _{T-1} -11.9061 7.4574 -1.5965 0.1544 C -53.3239 24.6462 -2.1635 0.0673 <i>ECM</i> _{T-1} -11.9061 7.4574 -1.5965 0.1544 C -53.3239 24.6462 -2.1635 0.0673 BREUSCH-GODFREY AUTOCORRELATION LM TEST | InSRINT | -0.3178 | 0.1248 | -2.5448 | 0.0843 |
| InVLM 0.0208 0.0201 1.0373 0.3759 C 6.6380 23.4924 0.2825 0.7959 Short-Run coefficients Defension Standard Error t-statistic Probability ΔlnFCE 10.0449 2.3094 4.3493 0.0034 ΔlnEIG -0.6210 0.3618 -1.7161 0.1298 ΔlnEXP -3.1637 0.9851 -3.2114 0.0148 ΔlnSRINT 0.3896 0.1760 2.2136 0.0625 ΔlnER -0.2195 0.1974 -1.1119 0.3029 ΔlnVLY -1.5980 0.6713 -2.3802 0.0489 ΔlnVLM 0.1034 0.0349 2.9567 0.0212 <i>ECM</i> _{T-1} -1.19061 7.4574 -1.5965 0.1544 C -53.3239 24.6462 -2.1635 0.0673 DIAGNOSTIC TESTS TEST Statistic PROBABI BREUSCH-GODFREY AUTOCORRELATION LM TEST 1.3361 0.470 GLEJSER HETEROSCEDASTICIT | InEER | -1.1108 | 0.1949 | -5.6973 | 0.0107 |
| C 6.6380 23.4924 0.2825 0.7959 SHOT-Run coefficients Standard Error t-statistic Probability ΔlnFCE 10.0449 2.3094 4.3493 0.0034 ΔlnEIG -0.6210 0.3618 -1.7161 0.1298 ΔlnEXP -3.1637 0.9851 -3.2114 0.0148 ΔlnSRINT 0.3896 0.1760 2.2136 0.0625 ΔlnEER -0.2195 0.1974 -1.1119 0.3029 ΔlnVLY -1.5980 0.6713 -2.3802 0.0489 ΔlnVLM 0.1034 0.0349 2.9567 0.0212 <i>ECM</i> _{t-1} -11.9061 7.4574 -1.5965 0.1544 C -53.3239 24.6462 -2.1635 0.0673 BREUSCH-GODFREY AUTOCORRELATION LM TEST TI1.3574 0.205 BREUSCH-PAGAN-GODFREY HETEROSCEDASTICITY TEST 2.9726 0.2000 GLEISER HETEROSCEDASTICITY TEST 1.3378 0.451 ARCH HETEROSCEDASTICITY TEST 1.3978 | lnVLY | -3.5899 | 0.4002 | -8.9695 | 0.0029 |
| Short-Run coefficients Coefficients Standard Error t-statistic Probability ΔlnFCE 10.0449 2.3094 4.3493 0.0034 ΔlnEIG -0.6210 0.3618 -1.7161 0.1298 ΔlnEXP -3.1637 0.9851 -3.2114 0.0148 ΔlnEXP -3.1637 0.9851 -3.2114 0.0148 ΔlnER -0.2195 0.1974 -1.1119 0.3029 ΔlnVLY -1.5980 0.6713 -2.3802 0.0489 ΔlnVLM 0.1034 0.0349 2.9567 0.0212 <i>ECM</i> _{t-1} -11.9061 7.4574 -1.5965 0.1544 C -53.3239 24.6462 -2.1635 0.0673 DIAGNOSTIC TEST TESTS TEST PROBABI BREUSCH-GODFREY AUTOCORRELATION LM TEST 11.3574 0.205 BREUSCH-PAGAN-GODFREY HETEROSCEDASTICITY TEST 2.9726 0.200 GLEJSER HETEROSCEDASTICITY TEST 1.3361 0.470 WHITE HETEROSCEDASTICITY TEST 1.3978 </td <td>lnVLM</td> <td>0.0208</td> <td>0.0201</td> <td>1.0373</td> <td>0.3759</td> | lnVLM | 0.0208 | 0.0201 | 1.0373 | 0.3759 |
| Coefficients Standard Error t-statistic Probability ΔlnFCE 10.0449 2.3094 4.3493 0.0034 ΔlnEIG -0.6210 0.3618 -1.7161 0.1298 ΔlnEXP -3.1637 0.9851 -3.2114 0.0148 ΔlnSRINT 0.3896 0.1760 2.2136 0.0625 ΔlnEER -0.2195 0.1974 -1.1119 0.3029 ΔlnVLY -1.5980 0.6713 -2.3802 0.0489 ΔlnVLM 0.1034 0.0349 2.9567 0.0212 <i>ECM</i> t=1 -11.9061 7.4574 -1.5965 0.1544 C -53.3239 24.6462 -2.1635 0.0673 <i>ECM</i> t=1 -11.9061 7.4574 -1.5965 0.1544 C -53.3239 24.6462 -2.1635 0.0673 BREUSCH-GODFREY AUTOCORRELATION LM TEST TEST PROBABI BREUSCH-PAGAN-GODFREY HETEROSCEDASTICITY TEST 2.9726 0.200 GLEJSER HETEROSCEDASTICITY TEST 1.3361 0.470 | С | 6.6380 | 23.4924 | 0.2825 | 0.7959 |
| Coefficients Error t-statistic Probability ΔlnFCE 10.0449 2.3094 4.3493 0.0034 ΔlnEIG -0.6210 0.3618 -1.7161 0.1298 ΔlnEXP -3.1637 0.9851 -3.2114 0.0148 ΔlnSRINT 0.3896 0.1760 2.2136 0.0625 ΔlnEER -0.2195 0.1974 -1.1119 0.3029 ΔlnVLY -1.5980 0.6713 -2.3802 0.0489 ΔlnVLM 0.1034 0.0349 2.9567 0.0212 ECM _{t-1} -11.9061 7.4574 -1.5965 0.1544 C -53.3239 24.6462 -2.1635 0.0673 ECM _{t-1} -11.9061 7.4574 -1.5965 0.0573 BREUSCH-GODFREY AUTOCORRELATION LM TEST TEST TEST ProBABI BREUSCH-PAGAN-GODFREY HETEROSCEDASTICITY TEST 1.3361 0.470 WHITE HETEROSCEDASTICITY TEST 1.3978 0.451 ARCH HETEROSCEDASTICITY TEST 0.8233 0.369 | | Short-Run coeffi | cients | | |
| AlnEIG -0.6210 0.3618 -1.7161 0.1298 AlnEXP -3.1637 0.9851 -3.2114 0.0148 AlnSRINT 0.3896 0.1760 2.2136 0.0625 AlnEER -0.2195 0.1974 -1.1119 0.3029 AlnVLY -1.5980 0.6713 -2.3802 0.0489 AlnVLM 0.1034 0.0349 2.9567 0.0212 ECM _{L-1} -11.9061 7.4574 -1.5965 0.1544 C -53.3239 24.6462 -2.1655 0.0673 DIAGNOSTIC TESTS TEST PROBABI BREUSCH-GODFREY AUTOCORRELATION LM TEST 11.3574 0.205 BREUSCH-PAGAN-GODFREY HETEROSCEDASTICITY TEST 11.3574 0.200 GLEISER HETEROSCEDASTICITY TEST 1.3361 0.470 WHITE HETEROSCEDASTICITY TEST 1.3978 0.451 ARCH HETEROSCEDASTICITY TEST 0.8233 0.369 JARQUE-BERA NORMALITY TEST 0.0303 0.984 | | Coefficients | | t-statistic | Probability |
| ΔlnEXP -3.1637 0.9851 -3.2114 0.0148 ΔlnSRINT 0.3896 0.1760 2.2136 0.0625 ΔlnER -0.2195 0.1974 -1.1119 0.3029 ΔlnVLY -1.5980 0.6713 -2.3802 0.0489 ΔlnVLM 0.1034 0.0349 2.9567 0.0212 <i>ECM</i> _{t-1} -11.9061 7.4574 -1.5965 0.1544 C -53.3239 24.6462 -2.1635 0.0673 TESTS TESTS Test Tests Test Statistic BREUSCH-GODFREY AUTOCORRELATION LM TEST 11.3574 0.205 BREUSCH-PAGAN-GODFREY HETEROSCEDASTICITY TEST 2.9726 0.200 GLEJSER HETEROSCEDASTICITY TEST 1.3361 0.470 WHITE HETEROSCEDASTICITY TEST 1.3978 0.451 ARCH HETEROSCEDASTICITY TEST 0.8233 0.369 JARQUE-BERA NORMALITY TEST 0.0303 0.984 | ΔlnFCE | 10.0449 | 2.3094 | 4.3493 | 0.0034 |
| ΔInSRINT 0.3896 0.1760 2.2136 0.0625 ΔInEER -0.2195 0.1974 -1.1119 0.3029 ΔInVLY -1.5980 0.6713 -2.3802 0.0489 ΔInVLM 0.1034 0.0349 2.9567 0.0212 <i>ECM</i> t-1 -11.9061 7.4574 -1.5965 0.1544 C -53.3239 24.6462 -2.1635 0.0673 DIAGNOSTIC TESTS TESTS TEST TESTS TEST PROBABI BREUSCH-GODFREY AUTOCORRELATION LM TEST 11.3574 0.2005 BREUSCH-PAGAN-GODFREY HETEROSCEDASTICITY TEST 2.9726 0.200 GLEJSER HETEROSCEDASTICITY TEST 1.3361 0.470 WHITE HETEROSCEDASTICITY TEST 1.3378 0.451 ARCH HETEROSCEDASTICITY TEST 0.8233 0.369 JARQUE-BERA NORMALITY TEST 0.0303 0.984 | ΔlnEIG | -0.6210 | 0.3618 | -1.7161 | 0.1298 |
| AlnEER -0.2195 0.1974 -1.1119 0.3029 AlnVLY -1.5980 0.6713 -2.3802 0.0489 AlnVLM 0.1034 0.0349 2.9567 0.0212 ECM _{t-1} -11.9061 7.4574 -1.5965 0.1544 C -53.3239 24.6462 -2.1635 0.0673 DIAGNOSTIC TESTS DIAGNOSTIC TESTS PROBABI BREUSCH-GODFREY AUTOCORRELATION LM TEST 11.3574 0.205 BREUSCH-PAGAN-GODFREY HETEROSCEDASTICITY TEST 11.3574 0.200 GLEJSER HETEROSCEDASTICITY TEST 2.9726 0.200 GLEJSER HETEROSCEDASTICITY TEST 1.3361 0.470 WHITE HETEROSCEDASTICITY TEST 1.3978 0.451 ARCH HETEROSCEDASTICITY TEST 0.8233 0.369 JARQUE-BERA NORMALITY TEST 0.0303 0.984 | ΔlnEXP | -3.1637 | 0.9851 | -3.2114 | 0.0148 |
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| TESTSSTATISTICPROBABIBREUSCH-GODFREY AUTOCORRELATION LM TEST11.35740.205BREUSCH-PAGAN-GODFREY HETEROSCEDASTICITY TEST2.97260.200GLEJSER HETEROSCEDASTICITY TEST1.33610.470WHITE HETEROSCEDASTICITY TEST1.39780.451ARCH HETEROSCEDASTICITY TEST0.82330.369JARQUE-BERA NORMALITY TEST0.03030.984 | | DIAGNOSTIC | Геsts | | |
| BREUSCH-PAGAN-GODFREY HETEROSCEDASTICITY TEST2.97260.200GLEJSER HETEROSCEDASTICITY TEST1.33610.470WHITE HETEROSCEDASTICITY TEST1.39780.451ARCH HETEROSCEDASTICITY TEST0.82330.369JARQUE-BERA NORMALITY TEST0.03030.984 | Tests | | | | PROBABILITY |
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| WHITE HETEROSCEDASTICITY TEST 1.3978 0.451 ARCH HETEROSCEDASTICITY TEST 0.8233 0.369 JARQUE-BERA NORMALITY TEST 0.0303 0.984 | BREUSCH-PAGAN-GODFREY HETEROSCEDASTICITY TEST | | | 2.9726 | 0.2009 |
| WHITE HETEROSCEDASTICITY TEST 1.3978 0.451 ARCH HETEROSCEDASTICITY TEST 0.8233 0.369 JARQUE-BERA NORMALITY TEST 0.0303 0.984 | GLEJSER HETEROSCEDASTICITY TEST | | | 1.3361 | 0.4703 |
| ARCH HETEROSCEDASTICITY TEST0.82330.369JARQUE-BERA NORMALITY TEST0.03030.984 | | | | | 0.4514 |
| JARQUE-BERA NORMALITY TEST 0.0303 0.984 | | | | | 0.3695 |
| | | | | | 0.9849 |
| 0.00 | | | | | |
| RAMSEY RESET TEST 2.8828 0.231 | RAMSEY RESET TEST | | | | 0.2316 |

Table 1: Long-Run and Short-Run Coefficients

According to long-run results, the main determinant of money demand is the final consumption expenditures. Elasticity of this component, having the biggest share of real income, is positive and greater than 1. This result shows that money demand in Turkey is hypersensitive to final consumption expenditures. On the other hand, expenditures on investment goods displays no effect on money demand. Elasticity of exports of goods and services is less than 1, yet its effect show itself as an indicator of money demand. The elasticity of interest rate is also less than one but it is negative. This result demonstrates that financial assets are alternative to money demand in Turkey. The fact

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that elasticity of exchange rate volatility is negative and greater than 1 indicates the existence of currency substitution. In addition, economic uncertainty has substantial effect on money demand in Turkey, however monetary uncertainty statistically ineffective. Negative coefficient of economic uncertainty indicates that, in the times of economic uncertainty, people of Turkey tend to decrease the amount of cash in their portfolio and incline to the assets that has less volatility. In the short-run, coefficients of final consumption expenditures, exports of goods and services, short-run interest rate, economic and monetary uncertainty exhibit are statistically significant. Moreover, diagnostic test results support that the model has sound predictions. One of the important results of the study is that in the long run, economic uncertainty has a significant effect on the money demand but monetary uncertainty does not. In the short run, however, it is clear that both uncertainties affect the money demand. These results suggest that reel income components, economic and monetary uncertainties do affect the demand for money in Turkey.