

Federal Reserve System Monetary Intermediation Cost

Fed Annual Monetary Intermediation Cost 1984 to 2012 using M2M Money Stock¹

Assumptions

Fed Reserve Requirement (RR) 10.0%

Intermediation Cost Federal Reserve System (\$)									Intermediation Cost Federal Reserve System (% Est.)						Comparison Analysis	
(N)	(A)	(B) = (A _N) - (A _{N-1})	(C) = (B ³) x (1-RR)	(D)	(E) = (C) + (D)	(F)	(G) = (F _N - F _{N-1})/F _{N-1}	(H) = (E) / (F)	(I)	(J) = (G) - (H)	(K) = (G) - (I)	(L) = (J) - (K)				
Year	MoneyStock M2M-NS ¹	\$ Increase Prior Year	Money Stock Change Intermediation Cost	Actual (Net) Budget ²	Total Annual Intermediation Cost (\$ Billions)	GDP ³	GDP ³ (% Growth)	Intermediation (% GDP Cost)	Inflation % CPI-U (EOY) ⁴	GDP-Intermediation Net (% GDP) (r _i)	GDP-Inflation Net (% GDP)	Real r _i GDP - Nominal GDP	Reported Growth	Difference w/Real		
# (End 12/31)	(\$ Billions)	(\$ Billions)	(\$ Billions)	(\$ Billions)	(\$ Billions)	(\$ Billions)										
0	1983	\$1,349.9				\$3,688.1										
1	1984	\$1,429.7	\$79.8	\$71.82	\$0.607	\$72.427	9.379%	1.795%	3.949%	7.583%	5.430%	2.153%				
2	1985	\$1,618.6	\$188.9	\$170.01	\$0.487	\$170.497	7.058%	3.948%	3.799%	3.110%	3.259%	-0.149%				
3	1986	\$1,883.9	\$265.3	\$238.77	\$0.504	\$239.274	5.201%	5.267%	1.098%	-0.066%	4.103%	-4.169%				
4	1987	\$1,921.2	\$37.3	\$33.57	\$0.504	\$34.074	7.479%	0.698%	4.434%	6.781%	3.045%	3.737%				
5	1988	\$1,968.6	\$47.4	\$42.66	\$0.564	\$43.224	7.534%	0.823%	4.419%	6.711%	3.115%	3.596%				
6	1989	\$2,019.8	\$51.2	\$46.08	\$0.582	\$46.662	6.298%	0.836%	4.647%	5.462%	1.651%	3.811%				
7	1990	\$2,115.3	\$95.5	\$85.95	\$0.604	\$86.554	4.735%	1.481%	6.106%	3.255%	-1.371%	4.626%				
8	1991	\$2,323.1	\$207.8	\$187.02	\$0.685	\$187.705	4.217%	3.081%	3.064%	1.136%	1.152%	-0.017%				
9	1992	\$2,574.3	\$251.2	\$226.08	\$0.771	\$226.851	6.584%	3.493%	2.901%	3.090%	3.683%	-0.593%				
10	1993	\$2,713.7	\$139.4	\$125.46	\$0.894	\$126.354	4.931%	1.854%	2.748%	3.077%	2.183%	0.894%				
11	1994	\$2,691.2	(\$22.5)	(\$20.25)	\$0.958	(\$19.292)	6.375%	-0.266%	2.675%	6.641%	3.700%	2.941%				
12	1995	\$2,721.2	\$30.0	\$27.00	\$1.029	\$28.029	4.060%	0.372%	2.538%	3.689%	1.522%	2.167%				
13	1996	\$2,880.9	\$159.7	\$143.73	\$1.084	\$144.814	6.371%	1.805%	3.322%	4.566%	3.048%	1.517%				
14	1997	\$3,073.9	\$193.0	\$173.70	\$1.124	\$174.824	6.016%	2.055%	1.702%	3.961%	4.314%	-0.353%				
15	1998	\$3,430.1	\$356.2	\$320.58	\$1.192	\$321.772	6.135%	3.564%	1.612%	2.570%	4.523%	-1.952%				
16	1999	\$3,687.8	\$257.7	\$231.93	\$1.214	\$233.144	6.427%	2.427%	2.685%	4.000%	3.742%	0.258%				
17	2000	\$3,881.7	\$193.9	\$174.51	\$1.245	\$175.755	5.434%	1.735%	3.387%	3.699%	2.047%	1.652%				
18	2001	\$4,458.9	\$577.2	\$519.48	\$1.411	\$520.891	2.402%	5.022%	1.552%	-2.620%	0.850%	-3.470%				
19	2002	\$4,875.3	\$416.4	\$374.76	\$1.534	\$376.294	3.796%	3.495%	2.377%	0.301%	1.419%	-1.118%				
20	2003	\$5,246.6	\$371.3	\$334.17	\$1.655	\$335.825	6.018%	2.942%	1.879%	3.076%	4.138%	-1.063%				
21	2004	\$5,587.1	\$340.5	\$306.45	\$1.498	\$307.948	6.212%	2.540%	3.256%	3.672%	2.957%	0.716%				
22	2005	\$5,681.9	\$94.8	\$85.32	\$1.476	\$86.796	6.413%	0.673%	3.416%	5.740%	2.997%	2.743%				
23	2006	\$5,857.2	\$175.3	\$157.77	\$1.613	\$159.383	5.292%	1.173%	2.541%	4.119%	2.752%	1.367%				
24	2007	\$6,195.2	\$338.0	\$304.20	\$2.411	\$306.611	4.925%	2.151%	4.081%	2.774%	0.844%	1.930%				
25	2008	\$6,743.6	\$548.4	\$493.56	\$2.536	\$496.096	-1.203%	3.523%	0.091%	-4.726%	-1.295%	-3.432%				
26	2009	\$7,326.9	\$583.3	\$524.97	\$2.914	\$527.884	0.369%	3.735%	2.721%	-3.366%	-2.353%	-1.014%				
27	2010	\$7,894.8	\$567.9	\$511.11	\$3.211	\$514.321	4.261%	3.490%	1.496%	0.771%	2.766%	-1.995%				
28	2011	\$8,924.8	\$1,030.0	\$927.00	\$3.398	\$930.398	3.971%	6.073%	2.962%	-2.102%	1.008%	-3.110%				
29	2012	\$9,843.6	\$918.8	\$826.92	\$3.737	\$830.657	3.545%	5.236%	1.741%	-1.691%	1.804%	-3.495%				
TOTALS		\$9,843.6	\$8,493.7	\$7,644.33	\$41.443	\$7,685.773	5.16%	2.57%	2.86%	2.55%	2.30%	0.25%				
Averages (1984-2012)			\$292.89	\$263.60		\$265.03	Count(Years)	29	29	29	29	29	29	29		
Ave Last 10 Years (2003-2012)			\$496.83	\$447.15	\$2.45	\$449.59	Last 10 Yrs	3.95%	3.14%	2.41%	0.77%	1.54%	-0.76%			
							Count(Years)	10	10	10	10	10	10	10		
							Last 5 Yrs Annual	2.16%	4.41%	1.80%	-2.24%	0.37%	-2.61%			
							Count(Years)	5	5	5	5	5	5	5		
							2012 Economy to 2008 (Last 5 Compounded)	111.3%	124.1%	109.3%	89.3%	101.9%	87.6%			
							Change since 2008 (Last 5 Compounded Net Change)	11.3%	24.1%	9.3%	-10.7%	1.9%	-12.4%			
							Nominal GDP Growth w/Inflation	Compounded Intermediation	Compounded Inflation	Real r _i GDP Growth	Nominal GDP - Inflation	Real r _i GDP - Nominal GDP				

Federal Reserve Monetary Intermediation Cost Estimate
 Intermediation cost percentage estimated as [(M2M Money Stock growth in \$) times (1- Reserve Requirement) + Fed net operating cost] divided by [GDP (\$)].

2012 Economy to 2008 (Last 5 Compounded)
 Change since 2008 (Last 5 Compounded Net Change)

SOURCES:

- 1-M2M Money Stock data from St. Louis Fed at <http://research.stlouisfed.org/fred2/series/M2MNS> Last Updated 2/22/2013
- 2-FRS actual budget data from Publications Annual Reports Table 2 at <http://www.federalreserve.gov/publications/budget-review/default.htm>
- 3-GDP numbers from St. Louis Fed economic data at <http://research.stlouisfed.org/fred2/series/GDP> Last Updated 3/28/2013
- 4-Inflation CPI-U (Dec to Dec) data from Bureau of Labor Statistics at <http://www.bls.gov/cpi/> Download Date 2/4/2013

Prepared By
 William Haugen
 7175 Gaston Ave Apt 2225
 Dallas, TX 75214
 214-321-7494
whaugen@flash.net
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Notes

- 1-M2M-NS Money Stock consists of: 1) currency in circulation, 2) traveler's checks of nonbank issuers, 3) demand deposits, 4) other checkable deposits (OCDs), primarily negotiable order of withdrawal (NOW) accounts, 5) savings deposits (which include money market deposit accounts, or MMDAs), and 6) balances in retail money market mutual funds (MMMFs). NS - Not seasonally adjusted.
- 2-Includes Board of Governors Expenses less recoverable expenses, Table 2 since 2011 Report.
- a-Ignores potential interest rate manipulation intermediation costs.

For last five years, [GDP-Inflation] shows misleading higher growth rate than real r_i. First use new money creation wealth transfer to banks hides economy's contracting GDP.

Difference between reported nominal GDP and real r_i GDP: