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NEWS RELEASE

EMBARGOED UNTIL RELEASE AT 9:00 A.M. ET, WEDNESDAY, JANUARY 22, 2020.

CFS DIVISIA MONETARY DATA FOR THE UNITED STATES: DECEMBER 2019

The CFS Featured Broad Divisia Monetary Aggregates in December 2019

- CFS Divisia M4, including Treasuries (DM4) the broadest and most important measure of money calculated by the Center for Financial Stability grew by 7.0% in December 2019, on a year-over-year basis. In contrast, CFS Divisia M4 increased by 4.1% in December 2018 over the preceding year.
- The narrower version of the CFS Divisia M4, excluding Treasuries, (DM4-), increased by 7.2% in December 2019 over the year, relative to a year-over-year gain of 3.6% in December 2018.
- CFS Divisia M3 (DM3) advanced by 7.2% year-over-year, relative to an increase of 3.6% in December 2018.

The Narrow Divisia Monetary Aggregates in December 2019²

- CFS Divisia M2 (DM2) advanced by 6.5% year-over-year, relative to an increase of 3.3% in December 2018 over the preceding year.
- CFS Divisia M1 (DM1) advanced by 7.0% year-over-year, relative to an increase of 3.2% in December 2018 over the preceding year.

Most Significant Factors Influencing CFS Divisia M4 in December 2019

Positive Contributors to CFS Divisia M4 Growth

- The largest positive contributor to CFS Divisia M4 growth was commercial banks' savings deposits (sweeps adjusted), contributing an increase of 2.4% in the last 12 months ending December 2019. Their growth-rate weight was 39.7%. Unweighted, they increased 6.3% in the last 12 months. This component is included in all of the aggregates, except the narrowest (DM1).
- The second largest positive contributor to growth was demand deposits (sweeps adjusted), contributing an increase of 1.1% in the last 12 months ending December 2019. Their growth-rate weight was 15.5%. Unweighted, they increased 7.4% in the last 12 months. This component is included in all of the aggregates.
- The third largest positive contributor to growth was large time deposits, contributing an increase of 0.8% in the last 12 months ending December 2019. Their growth-rate weight was 9.1%. Unweighted, they increased 9.7% in the last 12 months. This component is included in DM3, DM4-, and DM4, but not in the narrower aggregates (DM1 and DM2).

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¹ The CFS Divisia indexes in this release were constructed under the direction of Professor William A. Barnett. Dr. Barnett is the originator of the Divisia monetary aggregates, which he has been developing and refining for decades, in accordance with modern advances in economic aggregation and index-number theory.

² The narrow aggregates are similar to the Monetary Services Index supplied by the St. Louis Federal Reserve until 2013. See page 13 for the relationship between the CFS narrow aggregates and MSI. No other source currently exists for broad Divisia monetary aggregates, DM3, DM4-, and DM4 which are available only from the CFS.



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Negative Contributors to CFS Divisia M4 Growth

• None of the components were a negative contributor in the last 12 months ending December 2019.

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The next CFS Divisia M4 data are scheduled to be released at 9:00 AM ET on Wednesday, February 19, 2020.



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Figure 1 - Recent Growth in Broad CFS Divisia Monetary Data ³

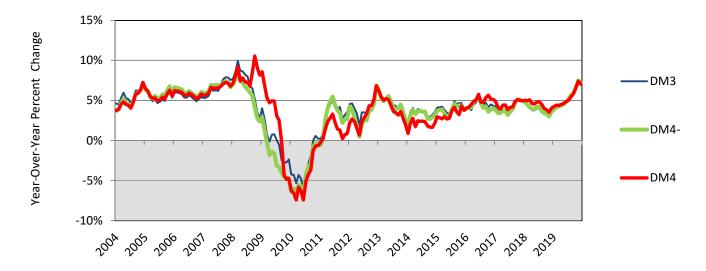
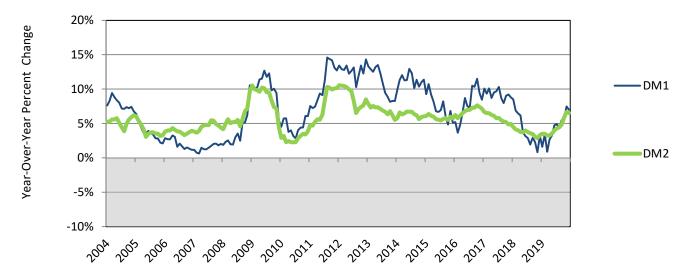


Figure 2 - Recent Growth in Narrow CFS Divisia Monetary Data ⁴



³ The broadest CFS Divisia monetary aggregates are **best** for most purposes. See p. 13 for background on the supporting research. We nevertheless provide the narrower CFS Divisia aggregates in Figure 2 for comparison.

⁴ The narrow aggregates shown here, DM1 and DM2, are similar to the MSI (monetary services index) Divisia aggregates, supplied by the St. Louis Federal Reserve Bank. For more information about the St. Louis Fed's MSI Divisia aggregates and their relationship to the CFS Divisia monetary aggregates, see p. 13.



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Figure 3 - CFS Divisia Monetary Aggregates Table, Year-Over-Year Percent Change

Tigure 3 Ci 3 Divisia		Divisia M4		<u> </u>	
		Excluding Treasuries		Divisia M2 (Sweeps	Divisia M1 (Sweeps
Date	Treasuries (DM4)	(DM4-)	Divisia M3	Adjusted) ⁵	Adjusted) ⁵
Mar-17	3.9%	3.5%	4.1%	6.5%	10.1%
Apr-17	4.4%	3.7%	4.3%	6.2%	8.7%
May-17	4.4%	3.7%	4.2%	6.1%	9.5%
Jun-17	3.8%	3.2%	3.7%	5.8%	9.7%
Jul-17	4.1%	3.5%	3.9%	5.8%	10.3%
Aug-17	4.2%	3.9%	4.0%	5.5%	8.7%
Sep-17	4.9%	4.7%	4.6%	5.3%	7.9%
Oct-17	5.1%	5.2%	5.0%	5.2%	9.0%
Nov-17	5.0%	5.1%	5.0%	4.9%	9.2%
Dec-17	5.0%	4.9%	5.0%	4.9%	8.8%
Jan-18	5.0%	4.9%	4.7%	4.5%	8.5%
Feb-18	5.0%	4.5%	4.4%	4.1%	6.9%
Mar-18	5.1%	4.1%	4.1%	4.0%	6.5%
Apr-18	4.6%	4.0%	3.8%	3.8%	6.2%
May-18	4.5%	3.9%	3.8%	3.7%	3.7%
Jun-18	4.8%	4.2%	4.0%	4.0%	3.2%
Jul-18	4.8%	4.2%	4.0%	3.7%	2.9%
Aug-18	4.5%	3.6%	3.5%	3.6%	1.9%
Sep-18	4.0%	3.4%	3.4%	3.5%	2.9%
Oct-18	3.8%	3.3%	3.3%	3.1%	2.3%
Nov-18	3.5%	3.0%	2.9%	2.9%	0.8%
Dec-18	4.1%	3.6%	3.6%	3.3%	3.2%
Jan-19	4.2%	3.9%	3.9%	3.5%	1.6%
Feb-19	4.4%	4.1%	4.2%	3.5%	3.4%
Mar-19	4.4%	4.2%	4.3%	3.2%	0.9%
Apr-19	4.5%	4.4%	4.4%	3.3%	2.7%
May-19	4.6%	4.5%	4.6%	3.5%	3.2%
Jun-19	4.8%	4.8%	4.8%	4.0%	4.7%
Jul-19	5.0%	5.2%	5.2%	4.3%	4.9%
Aug-19			5.6%	4.4%	4.3%
Sep-19		5.9%	5.9%		5.5%
Oct-19			6.6%		5.7%
Nov-19			7.5%		7.5%
Dec-19	7.0%	7.2%	7.2%	6.5%	7.0%

Note: Cells are shaded on a gradient from dark green (maximum) to dark red (minimum).

⁵ While the broadest Divisia monetary aggregates are best for most purposes, we provide the narrower CFS Divisia aggregates for comparison. The narrow aggregates shown here, DM1 and DM2, are similar to the MSI (monetary services index) Divisia aggregates, supplied by the St. Louis Federal Reserve Bank. For more information about the St. Louis Fed's MSI Divisia aggregates and their relationship to the CFS Divisia monetary aggregates, see p. 13.



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Figure 4 - CFS Divisia Data Table (DM4, DM4-, and DM3)

Levels are normalized to equal 100 in Jan. 1967

	Divisia M4 Inclu (DN	nding Treasuries M4)	Divisia M4 Exclu (DN	uding Treasuries //4-)	Divis	sia M3
Date	Level	Yr-Over-Yr % Growth Rate	Level	Yr-Over-Yr % Growth Rate	Level	Yr-Over-Yr % Growth Rate
Mar-17	1,446	3.9%	1,365	3.5%	1,363	4.1%
Apr-17	1,458	4.4%	1,372	3.7%	1,372	4.3%
May-17	1,464	4.4%	1,377	3.7%	1,377	4.2%
Jun-17	1,468	3.8%	1,380	3.2%	1,381	3.7%
Jul-17	1,474	4.1%	1,385	3.5%	1,386	3.9%
Aug-17	1,482	4.2%	1,394	3.9%	1,394	4.0%
Sep-17	1,493	4.9%	1,403	4.7%	1,401	4.6%
Oct-17	1,499	5.1%	1,408	5.2%	1,407	5.0%
Nov-17	1,505	5.0%	1,414	5.1%	1,413	5.0%
Dec-17	1,509	5.0%	1,416	4.9%	1,415	5.0%
Jan-18	1,513	5.0%	1,419	4.9%	1,416	4.7%
Feb-18	1,514	5.0%	1,418	4.5%	1,416	4.4%
Mar-18	1,520	5.1%	1,421	4.1%	1,419	4.1%
Apr-18	1,525	4.6%	1,426	4.0%	1,424	3.8%
May-18	1,531	4.5%	1,431	3.9%	1,429	3.8%
Jun-18	1,539	4.8%	1,438	4.2%	1,436	4.0%
Jul-18	1,544	4.8%	1,443	4.2%	1,441	4.0%
Aug-18	1,548	4.5%	1,445	3.6%	1,443	3.5%
Sep-18	1,553	4.0%	1,451	3.4%	1,449	3.4%
Oct-18	1,556	3.8%	1,455	3.3%	1,453	3.3%
Nov-18	1,558	3.5%	1,456	3.0%	1,454	2.9%
Dec-18	1,571	4.1%	1,467	3.6%	1,465	3.6%
Jan-19	1,577	4.2%	1,474	3.9%	1,472	3.9%
Feb-19	1,581	4.4%	1,477	4.1%	1,475	4.2%
Mar-19	1,586	4.4%	1,482	4.2%	1,480	4.3%
Apr-19	1,593	4.5%	1,488	4.4%	1,487	4.4%
May-19	1,601	4.6%	1,496	4.5%	1,494	4.6%
Jun-19	1,613	4.8%	1,508	4.8%	1,505	4.8%
Jul-19	1,622	5.0%	1,518	5.2%	1,516	5.2%
Aug-19	1,632	5.4%	1,526	5.6%	1,524	5.6%
Sep-19	1,644	5.9%	1,536	5.9%	1,534	5.9%
Oct-19	1,659	6.6%	1,550	6.5%	1,548	6.6%
Nov-19	1,674	7.4%	1,565	7.5%	1,563	7.5%
Dec-19	1,681	7.0%	1,572	7.2%	1,571	7.2%



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Figure 5 - CFS Divisia Data Table (DM2 and DM1)

Levels are normalized to equal 100 in Jan. 1967

	Divisia M2 (Sw	eeps Adjusted)	Divisia M1 (Sw	eeps Adjusted)
Date	Level	Yr-Over-Yr % Growth Rate	Level	Yr-Over-Yr % Growth Rate
Mar-17	1,554	6.5%	2,337	10.1%
Apr-17	1,562	6.2%	2,343	8.7%
May-17	1,568	6.1%	2,392	9.5%
Jun-17	1,572	5.8%	2,400	9.7%
Jul-17	1,579	5.8%	2,420	10.3%
Aug-17	1,586	5.5%	2,442	8.7%
Sep-17	1,591	5.3%	2,434	7.9%
Oct-17	1,598	5.2%	2,461	9.0%
Nov-17	1,602	4.9%	2,478	9.2%
Dec-17	1,607	4.9%	2,459	8.8%
Jan-18	1,609	4.5%	2,490	8.5%
Feb-18	1,611	4.1%	2,463	6.9%
Mar-18	1,617	4.0%	2,488	6.5%
Apr-18	1,620	3.8%	2,488	6.2%
May-18	1,626	3.7%	2,479	3.7%
Jun-18	1,634	4.0%	2,476	3.2%
Jul-18	1,638	3.7%	2,490	2.9%
Aug-18	1,643	3.6%	2,489	1.9%
Sep-18	1,646	3.5%	2,504	2.9%
Oct-18	1,647	3.1%	2,517	2.3%
Nov-18	1,648	2.9%	2,498	0.8%
Dec-18	1,660	3.3%	2,538	3.2%
Jan-19	1,665	3.5%	2,530	1.6%
Feb-19	1,667	3.5%	2,546	3.4%
Mar-19	1,669	3.2%	2,510	0.9%
Apr-19	1,673	3.3%	2,555	2.7%
May-19	1,684	3.5%	2,560	3.2%
Jun-19	1,699	4.0%	2,593	4.7%
Jul-19	1,709	4.3%	2,612	4.9%
Aug-19	1,715	4.4%	2,597	4.3%
Sep-19	1,726	4.8%	2,641	5.5%
Oct-19	1,743	5.8%	2,660	5.7%
Nov-19	1,758	6.7%	2,685	7.5%
Dec-19	1,768	6.5%	2,716	7.0%

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Figure 6 - Components of CFS Divisia M4 - Highlights for December 2019

to the broadest at the left column includes	table build from the narrowest aggregate at the top ne bottom. For example, the darkest green in the components of DM1. The next tier shows the ed in DM2, but not within DM1.	Weighted Contribution To DM4 Money Annual Growth Rate*	Divisia Growth-Rate Weights (Average of Last 12 Months)	Unweighted Year- Over-Year Percentage Growth Rate
	Currency	0.5%	10.0%	5.3%
DM1	Demand Deposits **	1.1%	15.5%	7.4%
	OCDs at Commercial Banks **	0.4%	3.6%	12.2%
	OCDs at Thrift Institutions **	0.1%	2.9%	4.8%
	Savings Deposits at Commercial Banks **	2.4%	39.7%	6.3%
	Savings Deposits at Thrift Institutions **	0.1%	5.8%	1.1%
Added into DM2	Retail Money-Market Funds	0.2%	1.1%	22.3%
to the broadest at the left column include components include DM1 Added into DM2 Added into DM3 Added into DM4-	Small Time Deposits at Commercial Banks	0.2%	2.6%	8.8%
	Small Time Deposits at Thrifts	0.1%	0.5%	18.6%
	Institutional Money-Market Funds	0.5%	2.5%	21.1%
Added into DM3	Large Time Deposits	0.8%	9.1%	9.7%
	Repurchase Agreements	0.1%	1.8%	7.3%
Added into DM4-	Commercial Paper	0.1%	1.3%	3.4%
Added into DM4	T-Bills	0.1%	3.7%	3.7%

Note: The row labels in the first column are shaded to show which components are included into which aggregates. Each data column is shaded on a gradient from dark green (maximum) to dark red (minimum). See the figures 10-15 for these calculations over time and a chart version of the above table. Traveler's Checks were included until their recent discontinuation by the Federal Reserve in January 2019.

Components That Are Pulling CFS Divisia M4 Up

The largest positive contributor to CFS Divisia M4 growth was commercial banks' savings deposits (sweeps adjusted), contributing an increase of 2.4% in the last 12 months ending December 2019. Their growth-rate weight was 39.7%. Unweighted, they increased 6.3% in the last 12 months. This component is included in all of the aggregates, except the narrowest (DM1).

The second largest positive contributor to growth was demand deposits (sweeps adjusted), contributing an increase of 1.1% in the last 12 months ending December 2019. Their growth-rate weight was 15.5%. Unweighted, they increased 7.4% in the last 12 months. This component is included in all of the aggregates.

The third largest positive contributor to growth was large time deposits, contributing an increase of 0.8% in the last 12 months ending December 2019. Their growth-rate weight was 9.1%. Unweighted, they increased 9.7% in the last 12 months. This component is included in DM3, DM4-, and DM4, but not in the narrower aggregates (DM1 and DM2).

Components That Are Pulling CFS Divisia M4 Down

None of the components were a negative contributor in the last 12 months ending December 2019.

^{*} Average of last 12 monthly weighted contributions to CFS Divisia M4 growth rates (annual rates). Unlike the other percent calculations in this report, the weighted contributions use continuous percent changes computed from natural logs.

^{**} Sweeps adjusted.

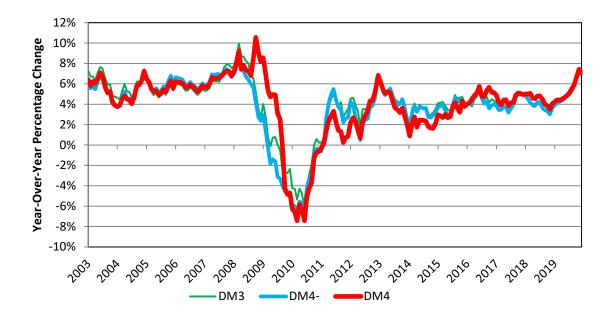


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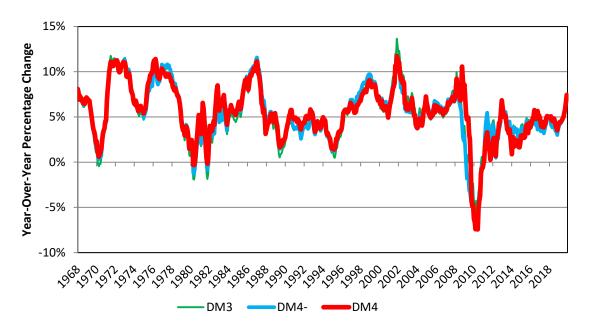
Figure 7 - CFS Divisia Monetary Growth Charts

DM3, DM4-, and DM4 Year-Over-Year Percent Change, Two Date Horizons

2003 to Present



1968 to Present



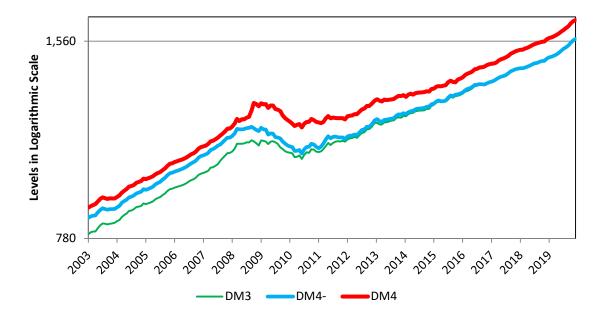


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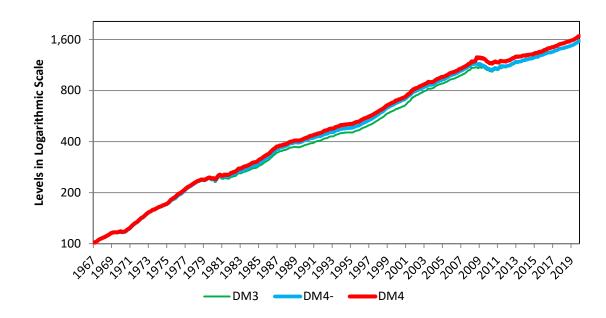
Figure 8 - CFS Divisia Monetary Aggregates Level Charts

DM3, DM4-, and DM4 Levels, Normalized to Equal 100 in Jan. 1967, Logarithmic Scales

2003 to Present



1967 to Present





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Figure 9 - Components of All CFS Divisia Aggregates Growth-Rate Weights Used in Latest Month (December 2019)

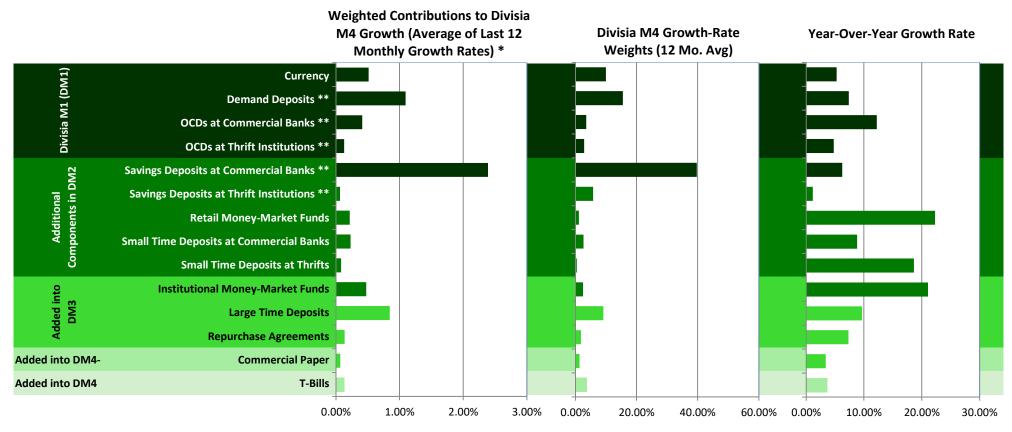
	Divisia							
	M1	M2M	MZM	M2	ALL	M3	M4-	M4
Currency	30.9%	12.7%	12.2%	12.2%	11.8%	10.3%	10.2%	9.7%
Demand Deposits (Sweeps Adjusted)	49.0%	20.1%	19.3%	19.4%	18.7%	16.4%	16.1%	15.4%
OCDs at Commercial Banks (Sweeps Adjusted)	11.3%	4.6%	4.5%	4.5%	4.3%	3.8%	3.7%	3.6%
OCDs at Thrift Institutions (Sweeps Adjusted)	8.7%	3.6%	3.4%	3.5%	3.3%	2.9%	2.9%	2.8%
Savings Deposits at Commercial Banks (Sweeps Adjusted)		50.3%	48.4%	48.6%	46.8%	41.0%	40.4%	38.7%
Savings Deposits at Thrift Institutions (Sweeps Adjusted)		6.9%	6.7%	6.7%	6.4%	5.6%	5.6%	5.3%
Retail Money-Market Funds		1.8%	1.7%	1.7%	1.6%	1.4%	1.4%	1.4%
Small Time Deposits at Commercial Banks				3.0%	2.9%	2.5%	2.5%	2.4%
Small Time Deposits at Thrifts				0.5%	0.5%	0.4%	0.4%	0.4%
Institutional Money-Market Funds			3.8%		3.7%	3.3%	3.2%	3.1%
Large Time Deposits						9.3%	9.1%	8.7%
Repurchase Agreements						3.0%	3.0%	2.9%
Commercial Paper							1.4%	1.4%
T-Bills								4.3%
Sum of Weights	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

^{*} Sweeps adjusted.



Figure 10 - Components of CFS Divisia M4 - Highlights for December 2019

Note: Each component's influence on DM4 growth (left chart column) reflects the component's unweighted growth (right chart column) and its growth-rate weight (middle chart column). The background and the bar colors are shaded to show which components are included in which aggregates. The lighter the green, the broader the aggregate.



^{*} Average of last 12 monthly weighted contributions to CFS Divisia M4 growth rates (annual rates). Unlike the other percent calculations in this report, the weighted contributions use continuous percent changes computed from natural logs e.g. (ln(x)-ln(x-1)).

^{**} Sweeps adjusted.

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Figure 11 - CFS Divisia M4 Quarterly Growth Triangle

Recent Quarterly History (Compound Annual Rates of Change)

This triangular report design was originated by Federal Reserve Bank of St. Louis to show seasonally adjusted annualized growth rates for a variety of time periods.

									Initial P	Period										
Terminal Period	Q1 2015	Q2 2015	Q3 2015	Q4 2015	Q1 2016	Q2 2016	Q3 2016	Q4 2016	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018	Q4 2018	Q1 2019	Q2 2019	Q3 2019	
Q2 2015	2.0																			1,334.02
Q3 2015	3.9	5.9																		1,353.14
Q4 2015	3.3	4.0	2.2																	1,360.46
Q1 2016	4.2	5.0	4.6	7.0																1,383.66
Q2 2016	4.6	5.2	5.0	6.5	5.9															1,403.80
Q3 2016	4.6	5.1	5.0	5.9	5.4	4.8														1,420.24
Q4 2016	4.5	4.9	4.7	5.3	4.8	4.2	3.6													1,432.83
Q1 2017	4.3	4.6	4.4	4.8	4.3	3.8	3.3	3.0												1,443.32
Q2 2017	4.4	4.7	4.6	5.0	4.6	4.2	4.1	4.3	5.6											1,463.17
Q3 2017	4.5	4.8	4.7	5.0	4.7	4.5	4.4	4.7	5.5	5.5										1,482.80
Q4 2017	4.7	4.9	4.8	5.2	4.9	4.7	4.7	5.0	5.7	5.7	6.0									1,504.59
Q1 2018	4.5	4.8	4.6	4.9	4.7	4.5	4.4	4.6	5.0	4.8	4.5	3.0								1,515.81
Q2 2018	4.5	4.7	4.6	4.8	4.6	4.4	4.4	4.5	4.8	4.7	4.4	3.6	4.1							1,531.24
Q3 2018	4.5	4.7	4.6	4.8	4.6	4.5	4.4	4.5	4.8	4.6	4.4	3.9	4.4	4.6						1,548.50
Q4 2018	4.4	4.6	4.5	4.7	4.5	4.4	4.3	4.4	4.6	4.4	4.2	3.8	4.1	4.0	3.5					1,561.80
Q1 2019	4.5	4.6	4.6	4.7	4.6	4.4	4.4	4.5	4.7	4.6	4.4	4.1	4.3	4.4	4.3	5.2				1,581.68
Q2 2019	4.5	4.7	4.6	4.8	4.6	4.5	4.5	4.6	4.8	4.7	4.5	4.3	4.5	4.7	4.7	5.3	5.4			1,602.48
Q3 2019	4.7	4.9	4.8	5.0	4.8	4.8	4.8	4.9	5.1	5.0	4.9	4.8	5.1	5.3	5.4	6.1	6.6	7.8		1,632.71
Q4 2019	5.0	5.1	5.1	5.3	5.2	5.1	5.1	5.3	5.5	5.5	5.5	5.4	5.7	6.0	6.3	7.0	7.6	8.8	9.8	1,671.32

How to Read this Table:

To find a growth rate for a particular date range, find the column that contains the start quarter; then find the row that contains the end quarter of the date range. The cell where they intersect represents the annualized growth rate for that time period. For example, the last row contains the growth rates ending in the most recent quarter for each starting quarter going back 4 3/4 years. The outer diagonal shows the growth rates that are the quarter-over-quarter rates for the last few years. Red and green shades highlight the largest negative and positive growth rates.

Quarterly Data Highlights:

In the last quarter, CFS Divisia M4 grew by 9.8% (seasonally adjusted annual rate).

In the last year, CFS Divisia M4 grew by 7.0% (seasonally adjusted annual rate).

In the last 2 years, CFS Divisia M4 grew by 5.4% (seasonally adjusted annual rate).

In the last 3 years, CFS Divisia M4 grew by 5.3% (seasonally adjusted annual rate).

In the last 4 years, CFS Divisia M4 grew by 5.3% (seasonally adjusted annual rate).



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Introduction to CFS Divisia Monetary Aggregates

Conventional money-supply measures are not adjusted to account for differences in the degree to which various assets actually serve as money, and hence implicitly assume that all assets in the aggregates contribute equally to the economy's monetary services. This assumption has not been reasonable since monetary assets began yielding interest over a half century ago. Divisia measures, using a mathematical formula derived by the famous 20th-century French economist, Francois Divisia, are a weighted aggregate, providing a more accurate picture of what is really happening to the economy's monetary service flow. The growth-rate weights for each component asset are based on their expenditure shares, with expenditures within the shares evaluated with user-cost pricing. The user-cost prices measure the interest foregone by owning the asset in question, instead of the higher, expected, benchmark rate, defined to be the rate of return on pure investment capital, providing no monetary services.

When their components are properly weighted, the broadest monetary aggregates (DM3, DM4-, and DM4) are almost always the best monetary aggregates, with DM4 commonly being the most useful of the three. As a result, this report focuses on the broadest, CFS Divisia aggregate (DM4). See W. A. Barnett, "The Optimal Level of Monetary Aggregation," *Journal of Money, Credit, and Banking*, November 1982. But we nevertheless provide the narrower CFS Divisia aggregates for comparison.

The CFS Divisia indexes in this release were developed by Professor William A. Barnett, based on his decades of work studying and refining Divisia measures of money supply, in accordance with the latest advances in economic measurement, modern economic aggregation theory, and state-of-the-art economic index-number theory. The Divisia formula for aggregating over imperfect substitutes was adapted for monetary and financial aggregation by W. A. Barnett in his seminal paper, "Economic Monetary Aggregates: An Application of Index Number and Aggregation Theory," *Journal of Econometrics*, September 1980, pp. 6-10. For more information about the history and methodology in this large literature, see http://www.centerforfinancialstability.org/amfm.php.

We consider the St. Louis Fed's MSI (monetary services index) Divisia aggregates to be an admirable and important contribution to public information, and we are indebted to the St. Louis Fed for helping us develop our Divisia monetary aggregates. Our narrowest Divisia monetary aggregates are similar to the St. Louis Fed's MSI Divisia aggregates, which are available only as narrow aggregates. However, we use a different benchmark interest-rate assumption, based on the recently introduced Bank of Israel formula. Since the Divisia quantity-index formula is relatively robust to the benchmark rate,

⁶ Reprinted in W. A. Barnett and A. Serletis, *The Theory of Monetary Aggregation*, Elsevier, 2000, chapter 7, pp. 125-149. Also see W. A. Barnett, *Getting It Wrong: How Faulty Monetary Statistics Undermine the Fed, the Financial System, and the Economy*, MIT Press, 2012, section 4.4, pp. 143-144.

⁷ Reprinted in W. A. Barnett and A. Serletis, *The Theory of Monetary Aggregation*, chapter 2, pp. 11-48. Also see W. A. Barnett, *Getting It Wrong: How Faulty Monetary Statistics Undermine the Fed, the Financial System, and the Economy*, appendix A, pp. 159-215.



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the CFS narrow Divisia quantity indexes can be expected usually to behave similarly to the St. Louis Fed's MSI Divisia aggregates; but the CFS and St. Louis Fed's corresponding user-cost price aggregates behave very differently. For more information about the St. Louis Fed's MSI, see http://research.stlouisfed.org/msi/ and http://research.stlouisfed.org/msi/ and http://research.stlouisfed.org/fred2/release?rid=62&soid=4.

The broad Divisia monetary aggregates, DM3, DM4-, and DM4, are available only from the CFS, since no other source currently exists for broad Divisia monetary aggregates for the US.

CFS Divisia Resources on the Center for Financial Stability Site

See www.centerforfinancialstability.org/amfm.php for more information about the following topics:

- Introduction to Advances in Monetary and Financial Measurement (Divisia)
- Monetary Data for the US: including methodology, data sources, and key takeaway points
- International Advances in Monetary and Financial Measurement: Divisia and Fisher-ideal monetary aggregates for a vast number of countries throughout the world
- Library: Key articles and books regarding advances in monetary and financial measurement

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The organization's website is <u>www.centerforfinancialstability.org</u>.

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