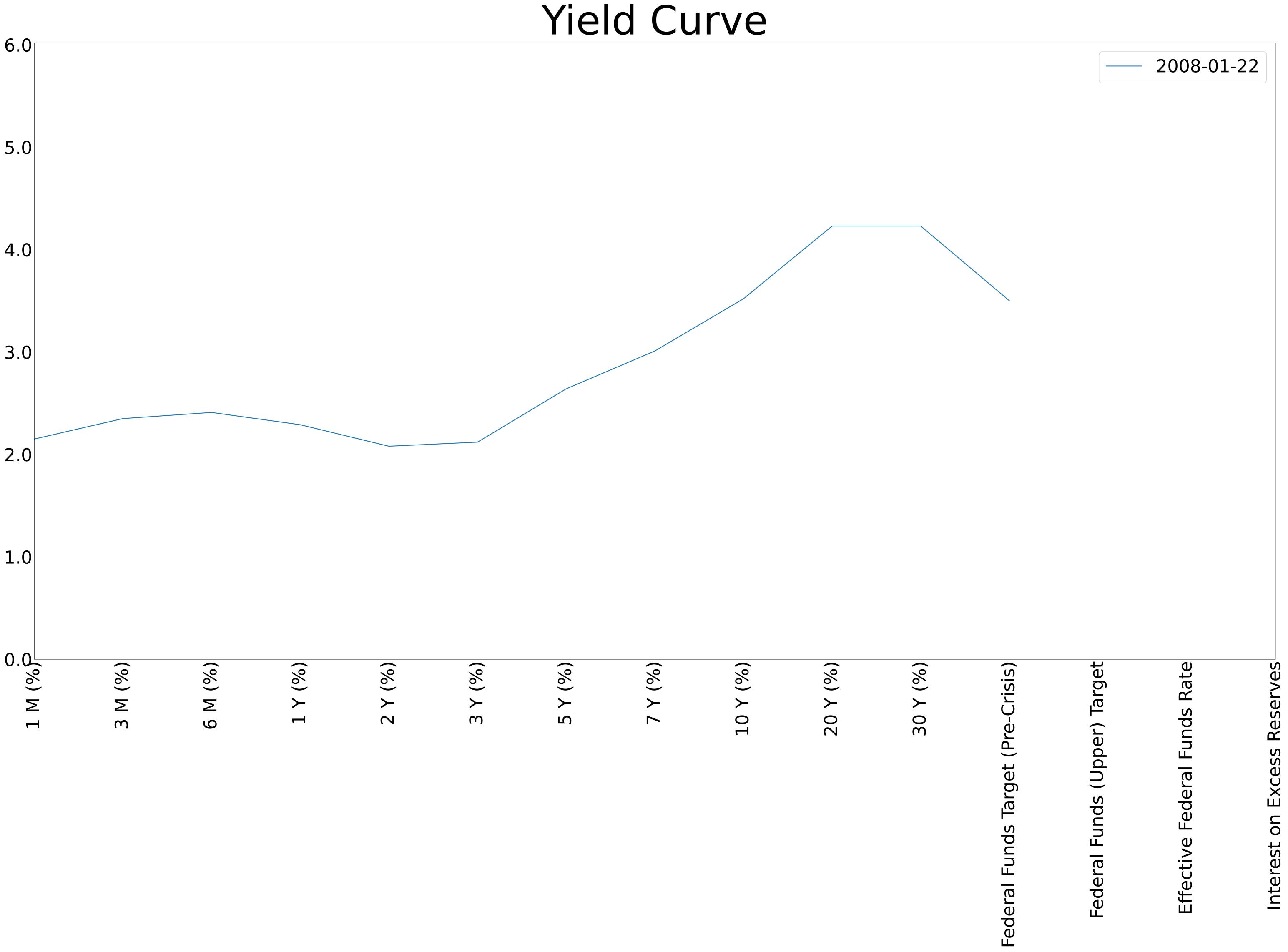
Yield Curve 6.0 2006-01-02 1 M (%) 10 Y (%) 3 M (%) (%) M 9 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves **Effective Federal Funds Rate**

Yield Curve 6.0 2006-09-09 1 M (%) 10 Y (%) 20 Y (%) 3 M (%) (%) M 9 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves **Effective Federal Funds Rate**

Yield Curve 6.0 2007-05-17 5.0 4.0 1 M (%) 10 Y (%) 20 Y (%) 3 M (%) (%) M 9 7 Y (%) 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves 30 Y (%) **Effective Federal Funds Rate**



Yield Curve 6.0 2008-09-28 1 M (%) 10 Y (%) 20 Y (%) 3 M (%) (%) M 9 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves **Effective Federal Funds Rate**

Yield Curve 6.0 2009-06-05 4.0 1 M (%) 3 M (%) 10 Y (%) 20 Y (%) (%) M 9 2 Y (%) 5 Y (%) 1 Y (%) 3 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves **Effective Federal Funds Rate** 30 Y (%)

Yield Curve 6.0 2010-02-10 4.0 1 M (%) 3 M (%) 10 Y (%) 20 Y (%) (%) M 9 2 Y (%) 1 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves **Effective Federal Funds Rate** 30 Y (%)

Yield Curve 6.0 2010-10-18 4.0 1 M (%)0 3 M (%) (%) M 9 2 Y (%) 10 Y (%) 20 Y (%) 5 Y (%) 7 Y (%) 1 Y (%) 3 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves **Effective Federal Funds Rate** 30 Y (%)

Yield Curve 6.0 2011-06-25 1 M (%) 10 Y (%) 20 Y (%) 3 M (%) (%) M 9 7 Y (%) 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves 30 Y (%) **Effective Federal Funds Rate**

Yield Curve 6.0 2012-03-01 4.0 1 M (%) 3 M (%) (%) M 9 2 Y (%) 10 Y (%) 20 Y (%) 7 Y (%) 1 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves **Effective Federal Funds Rate** 30 Y (%)

Yield Curve 6.0 2012-11-06 4.0 1 M (%) 3 M (%) (%) M 9 2 Y (%) 10 Y (%) 20 Y (%) 7 Y (%) 1 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves **Effective Federal Funds Rate** 30 Y (%)

Yield Curve 6.0 2013-07-14 1 M (%) 10 Y (%) 20 Y (%) 3 M (%) (%) M 9 7 Y (%) 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves **Effective Federal Funds Rate** 30 Y (%)

Yield Curve 6.0 2014-03-21 4.0 1 M (%) 3 M (%) 10 Y (%) 20 Y (%) (%) M 9 2 Y (%) 1 Y (%) 3 Y (%) 5 Y (%) 7 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves **Effective Federal Funds Rate** 30 Y (%)

Yield Curve 6.0 2014-11-26 4.0 1 M (%) 3 M (%) (%) M 9 10 Y (%) 20 Y (%) 2 Y (%) 1 Y (%) 3 Y (%) 5 Y (%) 7 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves **Effective Federal Funds Rate** 30 Y (%)

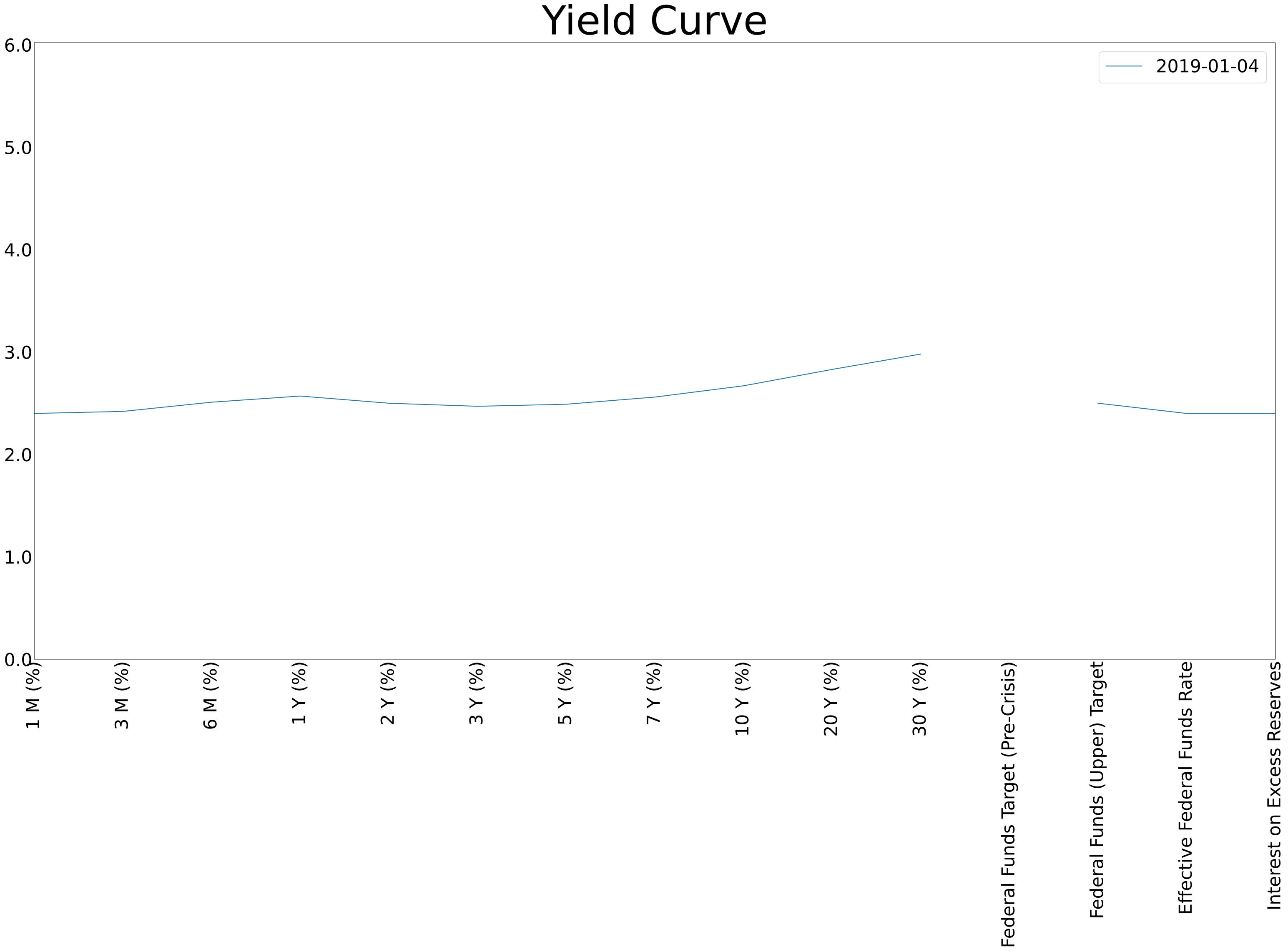
Yield Curve 6.0 2015-08-03 4.0 1 M (%)0 3 M (%) 2 Y (%) 10 Y (%) 20 Y (%) (%) M 9 1 Y (%) 3 Y (%) 5 Y (%) 7 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves **Effective Federal Funds Rate** 30 Y (%) Federal Funds Target (Pre-Crisis)

Yield Curve 6.0 2016-04-09 1 M (%) 10 Y (%) 3 M (%) (%) M 9 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves Effective Federal Funds Rate

Yield Curve 6.0 2016-12-15 4.0 1 M (%)0 3 M (%) 10 Y (%) 20 Y (%) 30 Y (%) (%) M 9 2 Y (%) 5 Y (%) 1 Y (%) 3 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves Effective Federal Funds Rate

Yield Curve 6.0 2017-08-22 4.0 1 M (%)0 3 M (%) 10 Y (%) 20 Y (%) (%) M 9 7 Y (%) 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves 30 Y (%) Federal Funds Target (Pre-Crisis) Effective Federal Funds Rate

Yield Curve 6.0 2018-04-29 1 M (%) 10 Y (%) 20 Y (%) 3 M (%) (%) M 9 7 Y (%) 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves 30 Y (%) **Effective Federal Funds Rate**



Yield Curve 6.0 2019-09-11 4.0 1 M (%) 10 Y (%) 20 Y (%) 3 M (%) (%) M 9 7 Y (%) 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves 30 Y (%) **Effective Federal Funds Rate**

Yield Curve 6.0 2020-05-18 1 M (%) 3 M (%) (%) M 9 2 Y (%) 10 Y (%) 1 Y (%) 7 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves 30 Y (%) Effective Federal Funds Rate

Yield Curve 6.0 2021-01-23 1 M (%) 10 Y (%) 20 Y (%) 3 M (%) (%) M 9 7 Y (%) 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves 30 Y (%) **Effective Federal Funds Rate**

Yield Curve 6.0 2021-09-30 0. 1 M (%) □ 3 M (%) (%) M 9 10 Y (%) 20 Y (%) 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) 7 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves Effective Federal Funds Rate 30 Y (%) Federal Funds Target (Pre-Crisis)

Yield Curve 6.0 2022-06-07 4.0 3.0 2.0 1 M (%)0.0 (%) M 9 10 Y (%) 20 Y (%) 3 M (%) 5 Y (%) 1 Y (%) 2 Y (%) 3 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves 30 Y (%) Effective Federal Funds Rate

Yield Curve 6.0 2023-02-12 1 M (%) 10 Y (%) 20 Y (%) 3 M (%) (%) M 9 7 Y (%) 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves 30 Y (%) **Effective Federal Funds Rate**

Yield Curve 6.0 2023-10-20 4.0 3.0 1 M (%) 10 Y (%) 20 Y (%) 3 M (%) (%) M 9 7 Y (%) 1 Y (%) 2 Y (%) 3 Y (%) 5 Y (%) Federal Funds (Upper) Target Interest on Excess Reserves 30 Y (%) **Effective Federal Funds Rate**