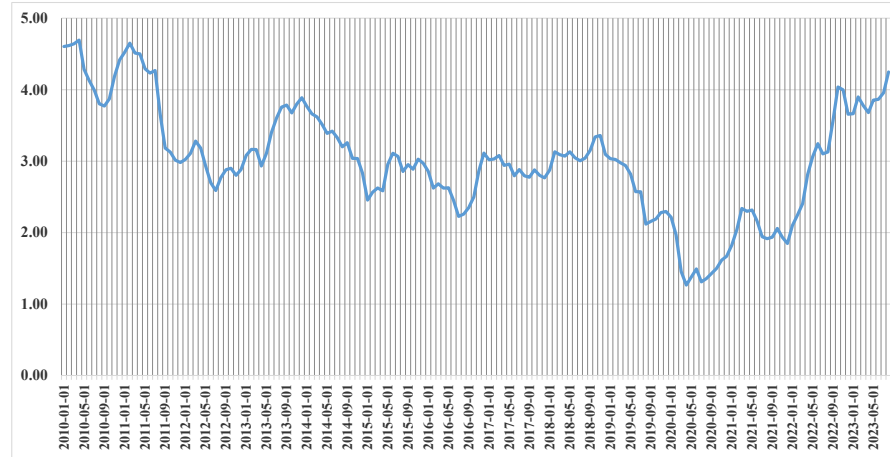


FRED Graph Observations
Federal Reserve Economic Data
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Economic Research Division
Federal Reserve Bank of St. Louis

DGS30 30-Year Treasury Constant Maturity Rate, Percent, Daily, Not Seasonally Adjusted

Frequency: Daily

observation_date	DGS30
2010-01-01	4.60
2010-02-01	4.62
2010-03-01	4.64
2010-04-01	4.69
2010-05-01	4.29
2010-06-01	4.13
2010-07-01	3.99
2010-08-01	3.80
2010-09-01	3.77
2010-10-01	3.87
2010-11-01	4.19
2010-12-01	4.42
2011-01-01	4.52
2011-02-01	4.65
2011-03-01	4.51
2011-04-01	4.50
2011-05-01	4.29
2011-06-01	4.23
2011-07-01	4.27
2011-08-01	3.65
2011-09-01	3.18
2011-10-01	3.13
2011-11-01	3.02
2011-12-01	2.98
2012-01-01	3.03
2012-02-01	3.11
2012-03-01	3.28
2012-04-01	3.18
2012-05-01	2.93
2012-06-01	2.70
2012-07-01	2.59
2012-08-01	2.77
2012-09-01	2.88
2012-10-01	2.90
2012-11-01	2.80
2012-12-01	2.88
2013-01-01	3.08
2013-02-01	3.17
2013-03-01	3.16
2013-04-01	2.93
2013-05-01	3.11
2013-06-01	3.40
2013-07-01	3.61
2013-08-01	3.76
2013-09-01	3.79
2013-10-01	3.68
2013-11-01	3.80
2013-12-01	3.89
2014-01-01	3.77
2014-02-01	3.66
2014-03-01	3.62
2014-04-01	3.52
2014-05-01	3.39
2014-06-01	3.42
2014-07-01	3.33
2014-08-01	3.20
2014-09-01	3.26
2014-10-01	3.04
2014-11-01	3.04



2014-12-01	2.83
2015-01-01	2.46
2015-02-01	2.57
2015-03-01	2.63
2015-04-01	2.59
2015-05-01	2.96
2015-06-01	3.11
2015-07-01	3.07
2015-08-01	2.86
2015-09-01	2.95
2015-10-01	2.89
2015-11-01	3.03
2015-12-01	2.97
2016-01-01	2.86
2016-02-01	2.62
2016-03-01	2.68
2016-04-01	2.62
2016-05-01	2.63
2016-06-01	2.45
2016-07-01	2.23
2016-08-01	2.26
2016-09-01	2.35
2016-10-01	2.50
2016-11-01	2.86
2016-12-01	3.11
2017-01-01	3.02
2017-02-01	3.03
2017-03-01	3.08
2017-04-01	2.94
2017-05-01	2.96
2017-06-01	2.80
2017-07-01	2.88
2017-08-01	2.80
2017-09-01	2.78
2017-10-01	2.88
2017-11-01	2.80
2017-12-01	2.77
2018-01-01	2.88
2018-02-01	3.13
2018-03-01	3.09
2018-04-01	3.07
2018-05-01	3.13
2018-06-01	3.05
2018-07-01	3.01
2018-08-01	3.04
2018-09-01	3.15
2018-10-01	3.34
2018-11-01	3.36
2018-12-01	3.10
2019-01-01	3.04
2019-02-01	3.02
2019-03-01	2.98
2019-04-01	2.94
2019-05-01	2.82
2019-06-01	2.57
2019-07-01	2.57
2019-08-01	2.12
2019-09-01	2.16
2019-10-01	2.19
2019-11-01	2.28
2019-12-01	2.30
2020-01-01	2.22
2020-02-01	1.97
2020-03-01	1.46
2020-04-01	1.27
2020-05-01	1.38
2020-06-01	1.49
2020-07-01	1.31
2020-08-01	1.36
2020-09-01	1.43

2020-10-01	1.5	
2020-11-01	1.62	
2020-12-01	1.67	
2021-01-01	1.82	
2021-02-01	2.04	
2021-03-01	2.34	
2021-04-01	2.30	1.57
2021-05-01	2.32	1.62
2021-06-01	2.16	
2021-07-01	1.94	
2021-08-01	1.92	
2021-09-01	1.94	
2021-10-01	2.06	
2021-11-01	1.94	
2021-12-01	1.85	
2022-01-01	2.10	
2022-02-01	2.25	
2022-03-01	2.41	
2022-04-01	2.81	
2022-05-01	3.07	
2022-06-01	3.25	
2022-07-01	3.10	
2022-08-01	3.13	
2022-09-01	3.56	
2022-10-01	4.04	
2022-11-01	4.00	
2022-12-01	3.66	
2023-01-01	3.66	
2023-02-01	3.9	
2023-03-01	3.78	
2023-04-01	3.68	
2023-05-01	3.86	
2023-06-01	3.87	
2023-07-01	3.96	
2023-08-01	4.25	