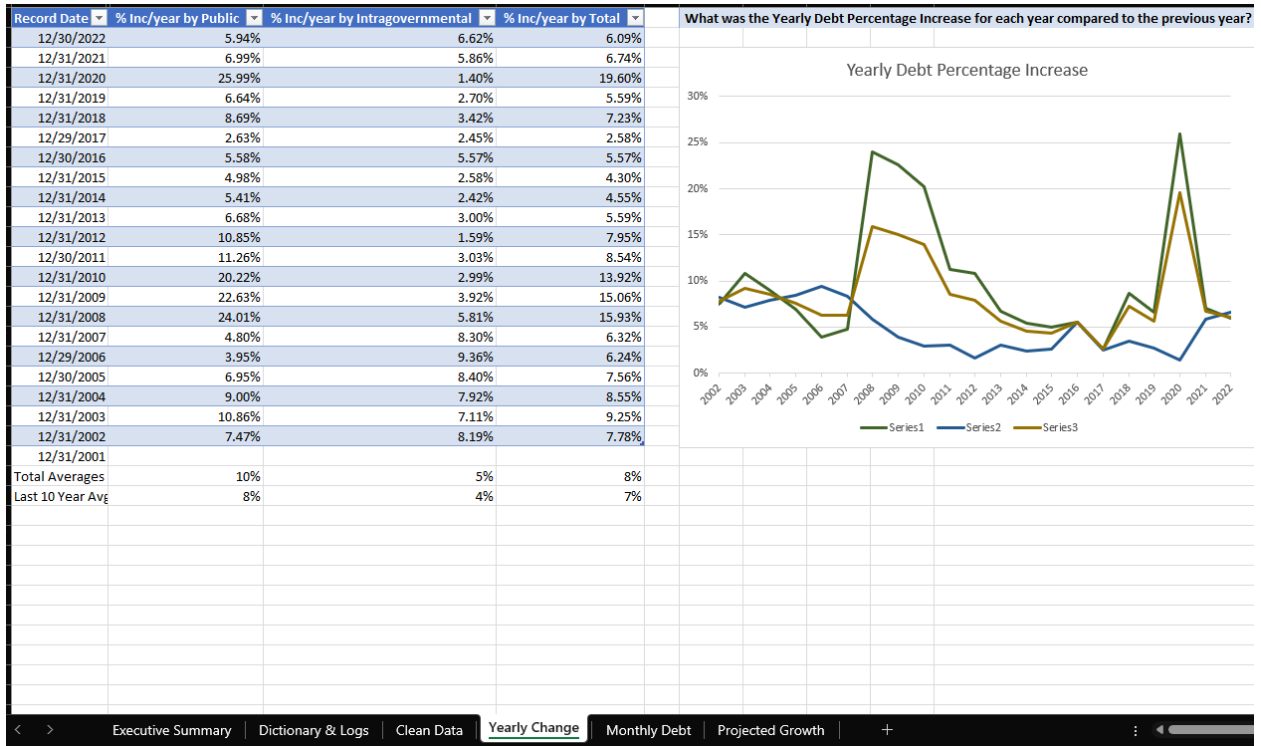


[illegible]

Data Dictionary	Definition
Debt Held by the Public	This is the portion of the US public debt that is held by individuals, corporations, foreign governments, and other entities outside of the US government.
Intragovernmental Holdings	This is the portion of the US public debt that is held by other US government agencies.
Total Public Debt Outstanding	This is the sum of the debt held by the public and intragovernmental holdings.
Assumptions	
1) 2023 is excluded due to unfinished data collection.	
2) Amounts are cumulative; only need last day of each year for yearly change.	
Change Log	
Version	Description
1	Prepared document for analysis
1.1	Duplicated Raw Data for Processed sheet; Named "Clean Data"
1.2	Hid Raw Data
1.3	Prepared sheets for each question required for analysis, prepared organizational sheets
2	Cleaned Data
2.1	Transposed Rows and Columns
2.2	Changed value's data format to full numbers
2.3	Replaced all "null" entries with blanks
3	Created Pivot Table 1
3.1	Created manual pivot table "Yearly Change" via filter to only show last day of each year; Copy and pasted into designated spot
3.2	Added calculated fields for yearly increases
3.3	Created Line Graph comparison of the three tracked debt types over time
4	Created Pivot Table 2
4.1	Created pivot table for Average Public Debt aggregated via months
4.2	Created column chart comapring the months
5	Created Pivot Table 3
5.1	Created Pivot Table for Max Public Debt
5.2	Copied usable data from Pivot Table into a new Table for forecasting; added 5 extra years and used FORECASTING.ETS function
5.3	Created area chart for yearly comparison
6	Summaries & Logs
6.1	Wrote Executive Summary and updated logs
7	Formatted sheets
<div> <div> <div>&lt;</div> <div>&gt;</div> </div> <div> <div>Executive Summary</div> <div>Dictionary &amp; Logs</div> <div>Clean Data</div> <div>Yearly Change</div> <div>Monthly Debt</div> <div>Projected Growth</div> <div>+</div> </div> <div> <div></div> <div></div> </div> </div>	

Record Date ▾	Debt Held by the Public ▾	Intragovernmental Holdings ▾	Total Public Debt Outstanding ▾			
2/15/2023	24,632,700,000,000	6,822,180,000,000	31,454,900,000,000			
2/14/2023	24,620,800,000,000	6,834,290,000,000	31,455,100,000,000			
2/13/2023	24,628,400,000,000	6,825,950,000,000	31,454,300,000,000			
2/10/2023	24,632,000,000,000	6,823,770,000,000	31,455,700,000,000			
2/9/2023	24,632,700,000,000	6,823,510,000,000	31,456,200,000,000			
2/8/2023	24,634,000,000,000	6,820,670,000,000	31,454,600,000,000			
2/7/2023	24,615,800,000,000	6,839,350,000,000	31,455,100,000,000			
2/6/2023	24,625,700,000,000	6,828,640,000,000	31,454,300,000,000			
2/3/2023	24,632,500,000,000	6,823,160,000,000	31,455,700,000,000			
2/2/2023	24,614,100,000,000	6,842,050,000,000	31,456,200,000,000			
2/1/2023	24,627,900,000,000	6,826,660,000,000	31,454,500,000,000			
1/31/2023	24,584,000,000,000	6,870,990,000,000	31,455,000,000,000			
1/30/2023	24,591,500,000,000	6,864,450,000,000	31,455,900,000,000			
1/27/2023	24,594,500,000,000	6,862,740,000,000	31,457,200,000,000			
1/26/2023	24,595,400,000,000	6,862,330,000,000	31,457,700,000,000			
1/25/2023	24,601,700,000,000	6,852,680,000,000	31,454,400,000,000			
1/24/2023	24,588,000,000,000	6,866,820,000,000	31,454,800,000,000			
1/23/2023	24,597,100,000,000	6,856,630,000,000	31,453,700,000,000			
1/20/2023	24,597,700,000,000	6,857,270,000,000	31,455,000,000,000			
1/19/2023	24,597,700,000,000	6,857,680,000,000	31,455,400,000,000			
1/18/2023	24,529,300,000,000	6,885,100,000,000	31,414,400,000,000			
1/17/2023	24,529,100,000,000	6,887,370,000,000	31,416,400,000,000			
1/13/2023	24,509,000,000,000	6,875,440,000,000	31,384,500,000,000			
1/12/2023	24,509,000,000,000	6,875,220,000,000	31,384,200,000,000			
1/11/2023	24,503,900,000,000	6,871,210,000,000	31,375,100,000,000			
1/10/2023	24,503,800,000,000	6,891,320,000,000	31,395,100,000,000			
1/9/2023	24,510,500,000,000	6,878,390,000,000	31,388,900,000,000			
1/6/2023	24,510,700,000,000	6,874,750,000,000	31,385,400,000,000			
1/5/2023	24,510,300,000,000	6,870,010,000,000	31,380,300,000,000			
1/4/2023	24,507,800,000,000	6,867,740,000,000	31,375,500,000,000			
1/3/2023	24,507,600,000,000	6,843,630,000,000	31,351,200,000,000			
12/30/2022	24,517,600,000,000	6,902,100,000,000	31,419,700,000,000			
12/29/2022	24,476,200,000,000	6,850,120,000,000	31,326,300,000,000			
12/28/2022	24,475,000,000,000	6,849,440,000,000	31,324,400,000,000			
12/27/2022	24,473,888,888,888	6,850,120,000,000	31,326,000,000,000			
< >	Executive Summary	Dictionary & Logs	Clean Data	Yearly Change	Monthly Debt	Projected Growth



E24 =AVERAGE(Table4[% Inc/year by Public])

Record Date	% Inc/year by Public	% Inc/year by Intragovernmental	% Inc/year by Total
12/30/2022	5.94%	6.62%	6.09%
12/31/2021	6.99%	5.86%	6.74%
12/31/2020	25.99%	1.40%	19.60%
12/31/2019	6.64%	2.70%	5.59%
12/31/2018	8.69%	3.42%	7.23%
12/29/2017	2.63%	2.45%	2.58%
12/30/2016	5.58%	5.57%	5.57%
12/31/2015	4.98%	2.58%	4.30%
12/31/2014	5.41%	2.42%	4.55%
12/31/2013	6.68%	3.00%	5.59%
12/31/2012	10.85%	1.59%	7.95%
12/30/2011	11.26%	3.03%	8.54%
12/31/2010	20.22%	2.99%	13.92%
12/31/2009	22.63%	3.92%	15.06%
12/31/2008	24.01%	5.81%	15.93%
12/31/2007	4.80%	8.30%	6.32%
12/29/2006	3.95%	9.36%	6.24%
12/30/2005	6.95%	8.40%	7.56%
12/31/2004	9.00%	7.92%	8.55%
12/31/2003	10.86%	7.11%	9.25%
12/31/2002	7.47%	8.19%	7.78%
12/31/2001			
Total Averages	10%	5%	8%
Last 10 Year Avg	8%	4%	7%

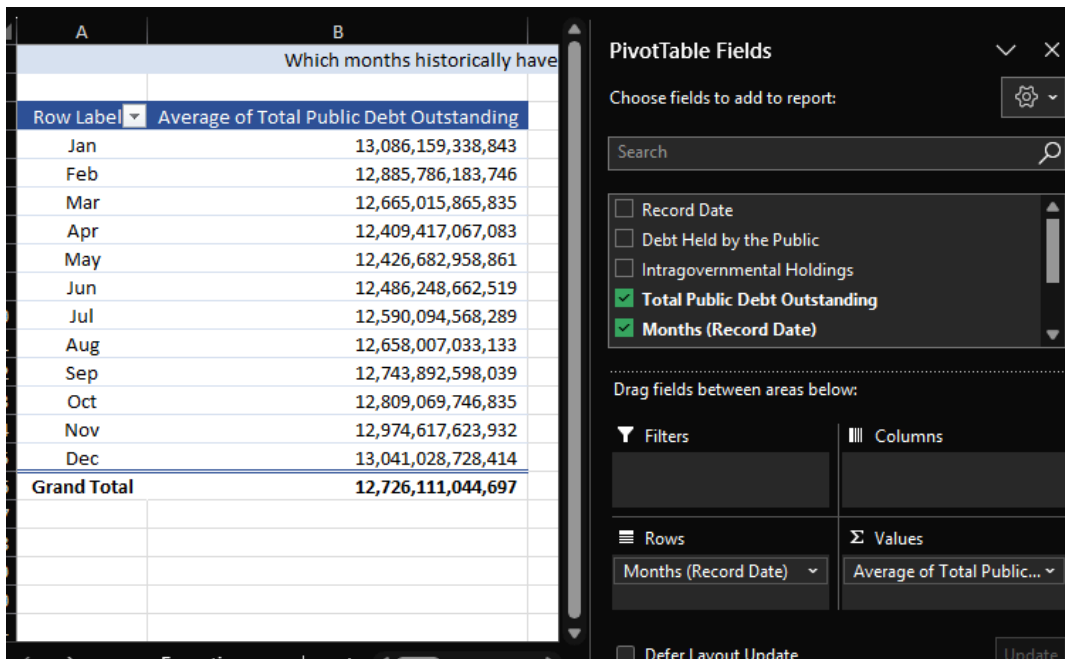
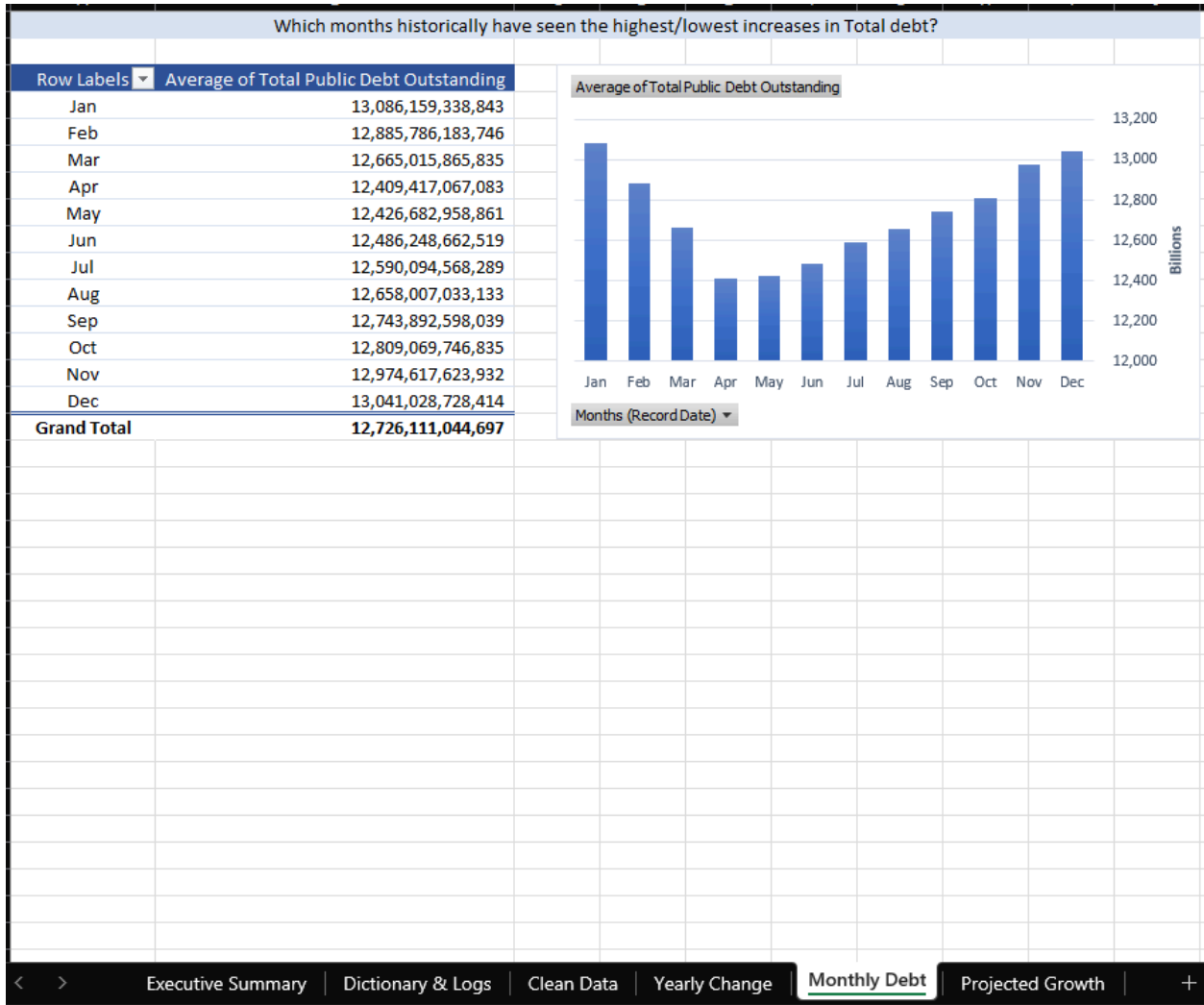
E25 =AVERAGE(E2:E11)

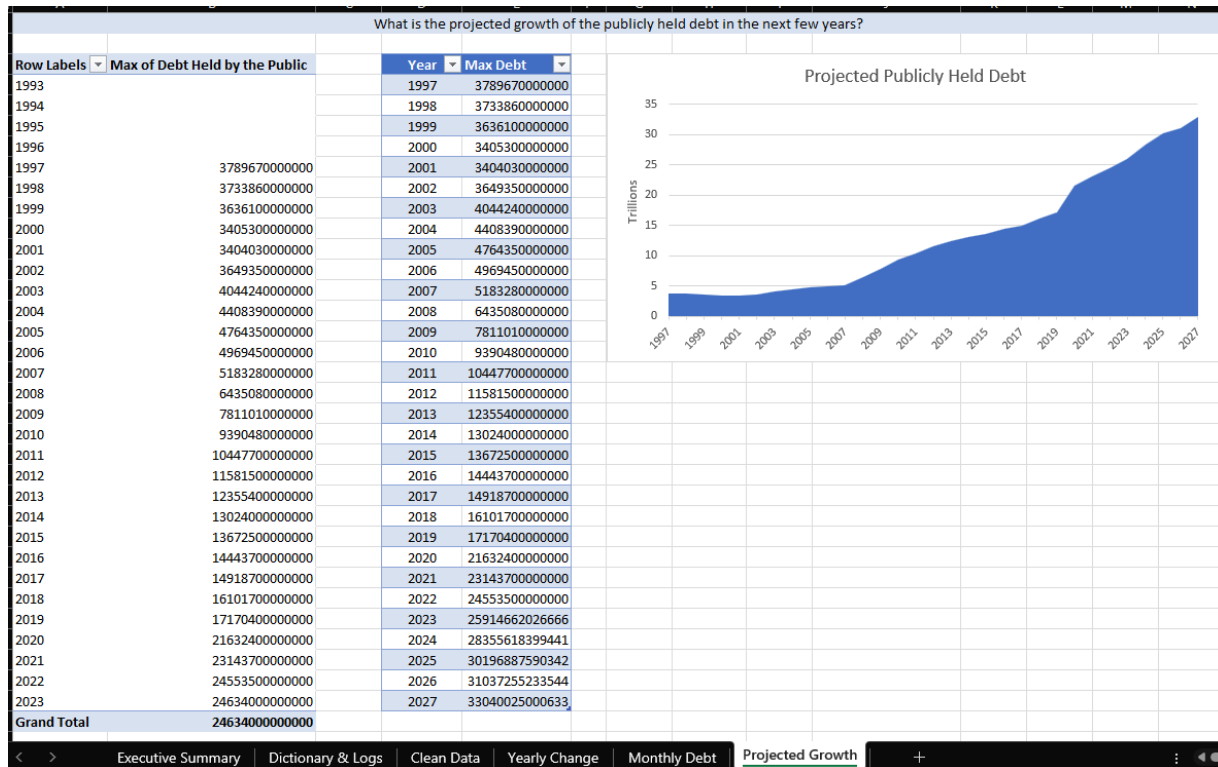
Record Date	% Inc/year by Public	% Inc/year by Intragovernmental	% Inc/year by Total
12/30/2022	5.94%	6.62%	6.09%
12/31/2021	6.99%	5.86%	6.74%
12/31/2020	25.99%	1.40%	19.60%
12/31/2019	6.64%	2.70%	5.59%
12/31/2018	8.69%	3.42%	7.23%
12/29/2017	2.63%	2.45%	2.58%
12/30/2016	5.58%	5.57%	5.57%
12/31/2015	4.98%	2.58%	4.30%
12/31/2014	5.41%	2.42%	4.55%
12/31/2013	6.68%	3.00%	5.59%
12/31/2012	10.85%	1.59%	7.95%
12/30/2011	11.26%	3.03%	8.54%
12/31/2010	20.22%	2.99%	13.92%
12/31/2009	22.63%	3.92%	15.06%
12/31/2008	24.01%	5.81%	15.93%
12/31/2007	4.80%	8.30%	6.32%
12/29/2006	3.95%	9.36%	6.24%
12/30/2005	6.95%	8.40%	7.56%
12/31/2004	9.00%	7.92%	8.55%
12/31/2003	10.86%	7.11%	9.25%
12/31/2002	7.47%	8.19%	7.78%
12/31/2001			
Total Averages	10%	5%	8%
Last 10 Year Avg	8%	4%	7%

E = (B2 - B3) / B3

F = (C2 - C3) / C3

G = (D2 - D3) / D3





=FORECAST.ETS(D30, \$E\$4:\$E\$29, \$D\$4:\$D\$29,,)

What is the projected growth of the publicly held debt in the next few years?

Row Labels	Max of Debt Held by the Public	Year	Max Debt
1993		1997	3789670000000
1994		1998	3733860000000
1995		1999	3636100000000
1996		2000	3405300000000
1997	3789670000000	2001	3404030000000
1998	3733860000000	2002	3649350000000
1999	3636100000000	2003	4044240000000
2000	3405300000000	2004	4408390000000
2001	3404030000000	2005	4764350000000
2002	3649350000000	2006	4969450000000
2003	4044240000000	2007	5183280000000
2004	4408390000000	2008	6435080000000
2005	4764350000000	2009	7811010000000
2006	4969450000000	2010	9390480000000
2007	5183280000000	2011	10447700000000
2008	6435080000000	2012	11581500000000
2009	7811010000000	2013	12355400000000
2010	9390480000000	2014	13024000000000
2011	10447700000000	2015	13672500000000
2012	11581500000000	2016	14443700000000
2013	12355400000000	2017	14918700000000
2014	13024000000000	2018	16101700000000
2015	13672500000000	2019	17170400000000
2016	14443700000000	2020	21632400000000
2017	14918700000000	2021	23143700000000
2018	16101700000000	2022	24553500000000
2019	17170400000000	2023	25914662026666
2020	21632400000000	2024	28355618399441
2021	23143700000000	2025	30196887590342
2022	24553500000000	2026	31037255233544
2023	24634000000000	2027	33040025000633
Grand Total	24634000000000		

Row Labels	Max of Debt Held by the Public
1993	
1994	
1995	
1996	
1997	3789670000000
1998	3733860000000
1999	3636100000000
2000	3405300000000
2001	3404030000000
2002	3649350000000
2003	4044240000000
2004	4408390000000
2005	4764350000000
2006	4969450000000
2007	5183280000000
2008	6435080000000
2009	7811010000000
2010	9390480000000
2011	10447700000000
2012	11581500000000
2013	12355400000000
2014	13024000000000
2015	13672500000000
2016	14443700000000
2017	14918700000000
2018	16101700000000
2019	17170400000000
2020	21632400000000
2021	23143700000000
2022	24553500000000
2023	24634000000000
Grand Total	24634000000000

**PivotTable Fields**

Choose fields to add to report:

Search

- ☐ Record Date
- ☒ Debt Held by the Public
- ☐ Intragovernmental Holdings
- ☐ Total Public Debt Outstanding
- ☐ Months (Record Date)
- ☐ Quarters (Record Date)
- ☒ Years (Record Date)

More Tables...

Drag fields between areas below:

Filters	Columns

Rows	Values
Years (Record Date)	Max of Debt Held by th...