

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
December 2024

Security:				3-5/8% 30-Year TIPS	3-7/8% 30-Year TIPS	3-3/8% 30-1/2-Year TIPS	2-3/8% 20-1/2-Year TIPS
Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				TIPS of April 2028 912810FD5 April 15, 1998 April 15, 1998 July 15, 1998	TIPS of April 2029 912810FH6 April 15, 1999 April 15, 1999 October 15, 1999 October 16, 2000	TIPS of April 2032 912810FQ6 October 15, 2001 October 15, 2001	TIPS of January 2025 912810FR4 July 15, 2004 July 30, 2004 January 31, 2005 July 29, 2005
Maturity Date: Ref CPI on Dated Date:				April 15, 2028 161.74000	April 15, 2029 164.39333	April 15, 2032 177.50000	January 15, 2025 188.49677
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio
December	1	2024	315.30100	1.94943	1.91797	1.77634	1.67271
December	2	2024	315.31271	1.94950	1.91804	1.77641	1.67278
December	3	2024	315.32442	1.94958	1.91811	1.77648	1.67284
December	4	2024	315.33613	1.94965	1.91818	1.77654	1.67290
December	5	2024	315.34784	1.94972	1.91825	1.77661	1.67296
December	6	2024	315.35955	1.94979	1.91832	1.77667	1.67302
December	7	2024	315.37126	1.94987	1.91839	1.77674	1.67309
December	8	2024	315.38297	1.94994	1.91847	1.77681	1.67315
December	9	2024	315.39468	1.95001	1.91854	1.77687	1.67321
December	10	2024	315.40639	1.95008	1.91861	1.77694	1.67327
December	11	2024	315.41810	1.95016	1.91868	1.77700	1.67333
December	12	2024	315.42981	1.95023	1.91875	1.77707	1.67340
December	13	2024	315.44152	1.95030	1.91882	1.77714	1.67346
December	14	2024	315.45323	1.95037	1.91889	1.77720	1.67352
December	15	2024	315.46494	1.95044	1.91896	1.77727	1.67358
December	16	2024	315.47665	1.95052	1.91904	1.77733	1.67364
December	17	2024	315.48835	1.95059	1.91911	1.77740	1.67371
December	18	2024	315.50006	1.95066	1.91918	1.77747	1.67377
December	19	2024	315.51177	1.95073	1.91925	1.77753	1.67383
December	20	2024	315.52348	1.95081	1.91932	1.77760	1.67389
December	21	2024	315.53519	1.95088	1.91939	1.77766	1.67396
December	22	2024	315.54690	1.95095	1.91946	1.77773	1.67402
December	23	2024	315.55861	1.95102	1.91953	1.77779	1.67408
December	24	2024	315.57032	1.95110	1.91961	1.77786	1.67414
December	25	2024	315.58203	1.95117	1.91968	1.77793	1.67420
December	26	2024	315.59374	1.95124	1.91975	1.77799	1.67427
December	27	2024	315.60545	1.95131	1.91982	1.77806	1.67433
December	28	2024	315.61716	1.95139	1.91989	1.77812	1.67439
December	29	2024	315.62887	1.95146	1.91996	1.77819	1.67445
December	30	2024	315.64058	1.95153	1.92003	1.77826	1.67451
December	31	2024	315.65229	1.95160	1.92010	1.77832	1.67458
CPI-U (NSA) for:				August 2024	314.796	September 2024	315.301
						October 2024	315.664

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
December 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s): Maturity Date: Ref CPI on Dated Date:				2% 20-Year TIPS TIPS of January 2026 912810FS2 January 15, 2006 January 31, 2006 July 31, 2006 January 15, 2026 198.47742	2-3/8% 20-Year TIPS TIPS of January 2027 912810PS1 January 15, 2007 January 31, 2007 July 31, 2007 January 15, 2027 201.66452	1-3/4% 20-Year TIPS TIPS of January 2028 912810PV4 January 15, 2008 January 31, 2008 July 31, 2008 January 15, 2028 209.49645	2-1/2% 20-Year TIPS TIPS of January 2029 912810PZ5 January 15, 2009 January 30, 2009 July 31, 2009 January 15, 2029 214.69971		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio		
December	1	2024	315.30100	1.58860	1.56349	1.50504	1.46857		
December	2	2024	315.31271	1.58866	1.56355	1.50510	1.46862		
December	3	2024	315.32442	1.58872	1.56361	1.50515	1.46868		
December	4	2024	315.33613	1.58878	1.56367	1.50521	1.46873		
December	5	2024	315.34784	1.58883	1.56372	1.50527	1.46879		
December	6	2024	315.35955	1.58889	1.56378	1.50532	1.46884		
December	7	2024	315.37126	1.58895	1.56384	1.50538	1.46889		
December	8	2024	315.38297	1.58901	1.56390	1.50543	1.46895		
December	9	2024	315.39468	1.58907	1.56396	1.50549	1.46900		
December	10	2024	315.40639	1.58913	1.56402	1.50555	1.46906		
December	11	2024	315.41810	1.58919	1.56407	1.50560	1.46911		
December	12	2024	315.42981	1.58925	1.56413	1.50566	1.46917		
December	13	2024	315.44152	1.58931	1.56419	1.50571	1.46922		
December	14	2024	315.45323	1.58937	1.56425	1.50577	1.46928		
December	15	2024	315.46494	1.58942	1.56431	1.50582	1.46933		
December	16	2024	315.47665	1.58948	1.56436	1.50588	1.46939		
December	17	2024	315.48835	1.58954	1.56442	1.50594	1.46944		
December	18	2024	315.50006	1.58960	1.56448	1.50599	1.46949		
December	19	2024	315.51177	1.58966	1.56454	1.50605	1.46955		
December	20	2024	315.52348	1.58972	1.56460	1.50610	1.46960		
December	21	2024	315.53519	1.58978	1.56465	1.50616	1.46966		
December	22	2024	315.54690	1.58984	1.56471	1.50622	1.46971		
December	23	2024	315.55861	1.58990	1.56477	1.50627	1.46977		
December	24	2024	315.57032	1.58996	1.56483	1.50633	1.46982		
December	25	2024	315.58203	1.59001	1.56489	1.50638	1.46988		
December	26	2024	315.59374	1.59007	1.56494	1.50644	1.46993		
December	27	2024	315.60545	1.59013	1.56500	1.50650	1.46999		
December	28	2024	315.61716	1.59019	1.56506	1.50655	1.47004		
December	29	2024	315.62887	1.59025	1.56512	1.50661	1.47009		
December	30	2024	315.64058	1.59031	1.56518	1.50666	1.47015		
December	31	2024	315.65229	1.59037	1.56523	1.50672	1.47020		
CPI-U (NSA) for:				August 2024	314.796	September 2024	315.301	October 2024	315.664

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

December 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				2-1/8% 30-Year TIPS TIPS of February 2040 912810QF8 February 15, 2010 February 26, 2010 August 31, 2010	2-1/8% 30-Year TIPS TIPS of February 2041 912810QP6 February 15, 2011 February 28, 2011 June 30, 2011 October 31, 2011	0-3/4% 30-Year TIPS TIPS of February 2042 912810QV3 February 15, 2012 February 29, 2012 June 29, 2012 October 31, 2012	0-5/8% 30-Year TIPS TIPS of February 2043 912810RA8 February 15, 2013 February 28, 2013 June 28, 2013 October 31, 2013		
Maturity Date: Ref CPI on Dated Date:				February 15, 2040 216.13950	February 15, 2041 218.99100	February 15, 2042 225.96062	February 15, 2043 229.91100		
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
December	1	2024	315.30100	1.45878	1.43979	1.39538	1.37140		
December	2	2024	315.31271	1.45884	1.43984	1.39543	1.37146		
December	3	2024	315.32442	1.45889	1.43990	1.39548	1.37151		
December	4	2024	315.33613	1.45895	1.43995	1.39554	1.37156		
December	5	2024	315.34784	1.45900	1.44000	1.39559	1.37161		
December	6	2024	315.35955	1.45906	1.44006	1.39564	1.37166		
December	7	2024	315.37126	1.45911	1.44011	1.39569	1.37171		
December	8	2024	315.38297	1.45916	1.44016	1.39574	1.37176		
December	9	2024	315.39468	1.45922	1.44022	1.39579	1.37181		
December	10	2024	315.40639	1.45927	1.44027	1.39585	1.37186		
December	11	2024	315.41810	1.45933	1.44032	1.39590	1.37191		
December	12	2024	315.42981	1.45938	1.44038	1.39595	1.37196		
December	13	2024	315.44152	1.45943	1.44043	1.39600	1.37202		
December	14	2024	315.45323	1.45949	1.44048	1.39605	1.37207		
December	15	2024	315.46494	1.45954	1.44054	1.39611	1.37212		
December	16	2024	315.47665	1.45960	1.44059	1.39616	1.37217		
December	17	2024	315.48835	1.45965	1.44065	1.39621	1.37222		
December	18	2024	315.50006	1.45971	1.44070	1.39626	1.37227		
December	19	2024	315.51177	1.45976	1.44075	1.39631	1.37232		
December	20	2024	315.52348	1.45981	1.44081	1.39636	1.37237		
December	21	2024	315.53519	1.45987	1.44086	1.39642	1.37242		
December	22	2024	315.54690	1.45992	1.44091	1.39647	1.37247		
December	23	2024	315.55861	1.45998	1.44097	1.39652	1.37253		
December	24	2024	315.57032	1.46003	1.44102	1.39657	1.37258		
December	25	2024	315.58203	1.46008	1.44107	1.39662	1.37263		
December	26	2024	315.59374	1.46014	1.44113	1.39668	1.37268		
December	27	2024	315.60545	1.46019	1.44118	1.39673	1.37273		
December	28	2024	315.61716	1.46025	1.44123	1.39678	1.37278		
December	29	2024	315.62887	1.46030	1.44129	1.39683	1.37283		
December	30	2024	315.64058	1.46036	1.44134	1.39688	1.37288		
December	31	2024	315.65229	1.46041	1.44139	1.39693	1.37293		
CPI-U (NSA) for:				August 2024	314.796	September 2024	315.301	October 2024	315.664

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
December 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				1-3/8% 30-Year TIPS TIPS of February 2044 912810RF7 February 15, 2014 February 28, 2014 June 30, 2014 October 31, 2014	0-1/4% 10-Year TIPS Series A-2025 912828H45 January 15, 2015 January 30, 2015 March 31, 2015 May 29, 2015	0-3/4% 30-Year TIPS TIPS of February 2045 912810RL4 February 15, 2015 February 27, 2015 June 30, 2015 October 30, 2015	0-3/8% 10-Year TIPS Series D-2025 912828XL9 July 15, 2015 July 31, 2015 September 30, 2015 November 30, 2015		
Maturity Date: Ref CPI on Dated Date:				February 15, 2044 233.05900	January 15, 2025 236.85403	February 15, 2045 235.48150	July 15, 2025 237.14365		
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
December	1	2024	315.30100	1.35288	1.33120	1.33896	1.32958		
December	2	2024	315.31271	1.35293	1.33125	1.33901	1.32963		
December	3	2024	315.32442	1.35298	1.33130	1.33906	1.32968		
December	4	2024	315.33613	1.35303	1.33135	1.33911	1.32973		
December	5	2024	315.34784	1.35308	1.33140	1.33916	1.32978		
December	6	2024	315.35955	1.35313	1.33145	1.33921	1.32982		
December	7	2024	315.37126	1.35318	1.33150	1.33926	1.32987		
December	8	2024	315.38297	1.35323	1.33155	1.33931	1.32992		
December	9	2024	315.39468	1.35328	1.33160	1.33936	1.32997		
December	10	2024	315.40639	1.35333	1.33165	1.33941	1.33002		
December	11	2024	315.41810	1.35338	1.33170	1.33946	1.33007		
December	12	2024	315.42981	1.35343	1.33175	1.33951	1.33012		
December	13	2024	315.44152	1.35348	1.33180	1.33956	1.33017		
December	14	2024	315.45323	1.35353	1.33185	1.33961	1.33022		
December	15	2024	315.46494	1.35358	1.33190	1.33966	1.33027		
December	16	2024	315.47665	1.35363	1.33195	1.33971	1.33032		
December	17	2024	315.48835	1.35368	1.33199	1.33976	1.33037		
December	18	2024	315.50006	1.35373	1.33204	1.33981	1.33042		
December	19	2024	315.51177	1.35378	1.33209	1.33986	1.33047		
December	20	2024	315.52348	1.35384	1.33214	1.33991	1.33052		
December	21	2024	315.53519	1.35389	1.33219	1.33996	1.33057		
December	22	2024	315.54690	1.35394	1.33224	1.34001	1.33062		
December	23	2024	315.55861	1.35399	1.33229	1.34006	1.33066		
December	24	2024	315.57032	1.35404	1.33234	1.34011	1.33071		
December	25	2024	315.58203	1.35409	1.33239	1.34016	1.33076		
December	26	2024	315.59374	1.35414	1.33244	1.34021	1.33081		
December	27	2024	315.60545	1.35419	1.33249	1.34026	1.33086		
December	28	2024	315.61716	1.35424	1.33254	1.34031	1.33091		
December	29	2024	315.62887	1.35429	1.33259	1.34036	1.33096		
December	30	2024	315.64058	1.35434	1.33264	1.34040	1.33101		
December	31	2024	315.65229	1.35439	1.33269	1.34045	1.33106		
CPI-U (NSA) for:				August 2024	314.796	September 2024	315.301	October 2024	315.664

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
December 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-5/8% 10-Year TIPS Series A-2026 912828N71 January 15, 2016 January 29, 2016 March 31, 2016 May 31, 2016	1% 30-Year TIPS TIPS of February 2046 912810RR1 February 15, 2016 February 29, 2016 June 30, 2016 October 31, 2016	0-1/8% 10-Year TIPS Series D-2026 912828S50 July 15, 2016 July 29, 2016 September 30, 2016 November 30, 2016	0-3/8% 10-Year TIPS Series A-2027 912828V49 January 15, 2017 January 31, 2017 March 31, 2017 May 31, 2017		
Maturity Date: Ref CPI on Dated Date:			January 15, 2026 237.61129	February 15, 2046 236.94448	July 15, 2026 239.70132	January 15, 2027 241.55919		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
December	1	2024	315.30100	1.32696	1.33070	1.31539	1.30527	
December	2	2024	315.31271	1.32701	1.33075	1.31544	1.30532	
December	3	2024	315.32442	1.32706	1.33079	1.31549	1.30537	
December	4	2024	315.33613	1.32711	1.33084	1.31554	1.30542	
December	5	2024	315.34784	1.32716	1.33089	1.31559	1.30547	
December	6	2024	315.35955	1.32721	1.33094	1.31564	1.30552	
December	7	2024	315.37126	1.32726	1.33099	1.31568	1.30557	
December	8	2024	315.38297	1.32731	1.33104	1.31573	1.30561	
December	9	2024	315.39468	1.32736	1.33109	1.31578	1.30566	
December	10	2024	315.40639	1.32740	1.33114	1.31583	1.30571	
December	11	2024	315.41810	1.32745	1.33119	1.31588	1.30576	
December	12	2024	315.42981	1.32750	1.33124	1.31593	1.30581	
December	13	2024	315.44152	1.32755	1.33129	1.31598	1.30586	
December	14	2024	315.45323	1.32760	1.33134	1.31603	1.30590	
December	15	2024	315.46494	1.32765	1.33139	1.31608	1.30595	
December	16	2024	315.47665	1.32770	1.33144	1.31612	1.30600	
December	17	2024	315.48835	1.32775	1.33149	1.31617	1.30605	
December	18	2024	315.50006	1.32780	1.33154	1.31622	1.30610	
December	19	2024	315.51177	1.32785	1.33159	1.31627	1.30615	
December	20	2024	315.52348	1.32790	1.33163	1.31632	1.30620	
December	21	2024	315.53519	1.32795	1.33168	1.31637	1.30624	
December	22	2024	315.54690	1.32800	1.33173	1.31642	1.30629	
December	23	2024	315.55861	1.32805	1.33178	1.31647	1.30634	
December	24	2024	315.57032	1.32809	1.33183	1.31651	1.30639	
December	25	2024	315.58203	1.32814	1.33188	1.31656	1.30644	
December	26	2024	315.59374	1.32819	1.33193	1.31661	1.30649	
December	27	2024	315.60545	1.32824	1.33198	1.31666	1.30653	
December	28	2024	315.61716	1.32829	1.33203	1.31671	1.30658	
December	29	2024	315.62887	1.32834	1.33208	1.31676	1.30663	
December	30	2024	315.64058	1.32839	1.33213	1.31681	1.30668	
December	31	2024	315.65229	1.32844	1.33218	1.31686	1.30673	
CPI-U (NSA) for:			August 2024	314.796	September 2024	315.301	October 2024	315.664

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
December 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				0-7/8% 30-Year TIPS TIPS of February 2047 912810RW0 February 15, 2017 February 28, 2017 June 30, 2017 October 31, 2017	0-3/8% 10-Year TIPS Series D-2027 9128282L3 July 15, 2017 July 31, 2017 September 29, 2017 November 30, 2017	0-1/2% 10-Year TIPS Series A-2028 9128283R9 January 15, 2018 January 31, 2018 March 29, 2018 May 31, 2018	1% 30-Year TIPS TIPS of February 2048 912810SB5 February 15, 2018 February 28, 2018 June 29, 2018 October 31, 2018		
Maturity Date: Ref CPI on Dated Date:				February 15, 2047 241.39250	July 15, 2027 244.61839	January 15, 2028 246.66571	February 15, 2048 246.59650		
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
December	1	2024	315.30100	1.30618	1.28895	1.27825	1.27861		
December	2	2024	315.31271	1.30622	1.28900	1.27830	1.27866		
December	3	2024	315.32442	1.30627	1.28905	1.27835	1.27871		
December	4	2024	315.33613	1.30632	1.28909	1.27839	1.27875		
December	5	2024	315.34784	1.30637	1.28914	1.27844	1.27880		
December	6	2024	315.35955	1.30642	1.28919	1.27849	1.27885		
December	7	2024	315.37126	1.30647	1.28924	1.27854	1.27890		
December	8	2024	315.38297	1.30652	1.28929	1.27858	1.27894		
December	9	2024	315.39468	1.30656	1.28933	1.27863	1.27899		
December	10	2024	315.40639	1.30661	1.28938	1.27868	1.27904		
December	11	2024	315.41810	1.30666	1.28943	1.27873	1.27909		
December	12	2024	315.42981	1.30671	1.28948	1.27877	1.27913		
December	13	2024	315.44152	1.30676	1.28952	1.27882	1.27918		
December	14	2024	315.45323	1.30681	1.28957	1.27887	1.27923		
December	15	2024	315.46494	1.30685	1.28962	1.27892	1.27928		
December	16	2024	315.47665	1.30690	1.28967	1.27896	1.27932		
December	17	2024	315.48835	1.30695	1.28972	1.27901	1.27937		
December	18	2024	315.50006	1.30700	1.28976	1.27906	1.27942		
December	19	2024	315.51177	1.30705	1.28981	1.27911	1.27947		
December	20	2024	315.52348	1.30710	1.28986	1.27915	1.27951		
December	21	2024	315.53519	1.30715	1.28991	1.27920	1.27956		
December	22	2024	315.54690	1.30719	1.28996	1.27925	1.27961		
December	23	2024	315.55861	1.30724	1.29000	1.27930	1.27966		
December	24	2024	315.57032	1.30729	1.29005	1.27934	1.27970		
December	25	2024	315.58203	1.30734	1.29010	1.27939	1.27975		
December	26	2024	315.59374	1.30739	1.29015	1.27944	1.27980		
December	27	2024	315.60545	1.30744	1.29020	1.27949	1.27985		
December	28	2024	315.61716	1.30749	1.29024	1.27953	1.27989		
December	29	2024	315.62887	1.30753	1.29029	1.27958	1.27994		
December	30	2024	315.64058	1.30758	1.29034	1.27963	1.27999		
December	31	2024	315.65229	1.30763	1.29039	1.27968	1.28004		
CPI-U (NSA) for:				August 2024	314.796	September 2024	315.301	October 2024	315.664

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

December 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-3/4% 10-Year TIPS Series D-2028 912828Y38 July 15, 2018 July 31, 2018 September 28, 2018 November 30, 2018	0-7/8% 10-Year TIPS Series A-2029 9128285W6 January 15, 2019 January 31, 2019 March 29, 2019 May 31, 2019	1% 30-Year TIPS TIPS of February 2049 912810SG4 February 15, 2019 February 28, 2019 August 30, 2019	0-1/4% 10-Year TIPS Series D-2029 9128287D6 July 15, 2019 July 31, 2019 September 30, 2019 November 29, 2019		
Maturity Date: Ref CPI on Dated Date:			July 15, 2028 251.01658	January 15, 2029 252.50248	February 15, 2049 251.63550	July 15, 2029 255.79368		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
December	1	2024	315.30100	1.25610	1.24870	1.25301	1.23264	
December	2	2024	315.31271	1.25614	1.24875	1.25305	1.23268	
December	3	2024	315.32442	1.25619	1.24880	1.25310	1.23273	
December	4	2024	315.33613	1.25624	1.24884	1.25315	1.23278	
December	5	2024	315.34784	1.25628	1.24889	1.25319	1.23282	
December	6	2024	315.35955	1.25633	1.24894	1.25324	1.23287	
December	7	2024	315.37126	1.25638	1.24898	1.25329	1.23291	
December	8	2024	315.38297	1.25642	1.24903	1.25333	1.23296	
December	9	2024	315.39468	1.25647	1.24908	1.25338	1.23300	
December	10	2024	315.40639	1.25652	1.24912	1.25343	1.23305	
December	11	2024	315.41810	1.25656	1.24917	1.25347	1.23310	
December	12	2024	315.42981	1.25661	1.24921	1.25352	1.23314	
December	13	2024	315.44152	1.25666	1.24926	1.25357	1.23319	
December	14	2024	315.45323	1.25670	1.24931	1.25361	1.23323	
December	15	2024	315.46494	1.25675	1.24935	1.25366	1.23328	
December	16	2024	315.47665	1.25680	1.24940	1.25370	1.23332	
December	17	2024	315.48835	1.25684	1.24945	1.25375	1.23337	
December	18	2024	315.50006	1.25689	1.24949	1.25380	1.23342	
December	19	2024	315.51177	1.25694	1.24954	1.25384	1.23346	
December	20	2024	315.52348	1.25698	1.24959	1.25389	1.23351	
December	21	2024	315.53519	1.25703	1.24963	1.25394	1.23355	
December	22	2024	315.54690	1.25708	1.24968	1.25398	1.23360	
December	23	2024	315.55861	1.25712	1.24972	1.25403	1.23365	
December	24	2024	315.57032	1.25717	1.24977	1.25408	1.23369	
December	25	2024	315.58203	1.25722	1.24982	1.25412	1.23374	
December	26	2024	315.59374	1.25726	1.24986	1.25417	1.23378	
December	27	2024	315.60545	1.25731	1.24991	1.25422	1.23383	
December	28	2024	315.61716	1.25736	1.24996	1.25426	1.23387	
December	29	2024	315.62887	1.25740	1.25000	1.25431	1.23392	
December	30	2024	315.64058	1.25745	1.25005	1.25436	1.23397	
December	31	2024	315.65229	1.25750	1.25010	1.25440	1.23401	
CPI-U (NSA) for:			August 2024	314.796	September 2024	315.301	October 2024	315.664

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
December 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/8% 10-Year TIPS Series A-2030 912828Z37 January 15, 2020 January 31, 2020 March 31, 2020 May 29, 2020	0-1/4% 30-Year TIPS TIPS of February 2050 912810SM1 February 15, 2020 February 28, 2020 August 31, 2020	0-1/8% 5-Year TIPS Series X-2025 912828ZJ2 April 15, 2020 April 30, 2020 June 30, 2020 July 13, 2020	0-1/8% 10-Year TIPS Series D-2030 912828ZZ6 July 15, 2020 July 31, 2020 September 30, 2020 November 30, 2020		
Maturity Date: Ref CPI on Dated Date:			January 15, 2030 257.28368	February 15, 2050 257.09503	April 15, 2025 258.30093	July 15, 2030 256.39126		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
December	1	2024	315.30100	1.22550	1.22640	1.22067	1.22977	
December	2	2024	315.31271	1.22554	1.22644	1.22072	1.22981	
December	3	2024	315.32442	1.22559	1.22649	1.22076	1.22986	
December	4	2024	315.33613	1.22564	1.22654	1.22081	1.22990	
December	5	2024	315.34784	1.22568	1.22658	1.22085	1.22995	
December	6	2024	315.35955	1.22573	1.22663	1.22090	1.22999	
December	7	2024	315.37126	1.22577	1.22667	1.22095	1.23004	
December	8	2024	315.38297	1.22582	1.22672	1.22099	1.23008	
December	9	2024	315.39468	1.22586	1.22676	1.22104	1.23013	
December	10	2024	315.40639	1.22591	1.22681	1.22108	1.23018	
December	11	2024	315.41810	1.22595	1.22685	1.22113	1.23022	
December	12	2024	315.42981	1.22600	1.22690	1.22117	1.23027	
December	13	2024	315.44152	1.22605	1.22695	1.22122	1.23031	
December	14	2024	315.45323	1.22609	1.22699	1.22126	1.23036	
December	15	2024	315.46494	1.22614	1.22704	1.22131	1.23040	
December	16	2024	315.47665	1.22618	1.22708	1.22135	1.23045	
December	17	2024	315.48835	1.22623	1.22713	1.22140	1.23050	
December	18	2024	315.50006	1.22627	1.22717	1.22144	1.23054	
December	19	2024	315.51177	1.22632	1.22722	1.22149	1.23059	
December	20	2024	315.52348	1.22636	1.22726	1.22153	1.23063	
December	21	2024	315.53519	1.22641	1.22731	1.22158	1.23068	
December	22	2024	315.54690	1.22646	1.22736	1.22163	1.23072	
December	23	2024	315.55861	1.22650	1.22740	1.22167	1.23077	
December	24	2024	315.57032	1.22655	1.22745	1.22172	1.23082	
December	25	2024	315.58203	1.22659	1.22749	1.22176	1.23086	
December	26	2024	315.59374	1.22664	1.22754	1.22181	1.23091	
December	27	2024	315.60545	1.22668	1.22758	1.22185	1.23095	
December	28	2024	315.61716	1.22673	1.22763	1.22190	1.23100	
December	29	2024	315.62887	1.22677	1.22767	1.22194	1.23104	
December	30	2024	315.64058	1.22682	1.22772	1.22199	1.23109	
December	31	2024	315.65229	1.22686	1.22777	1.22203	1.23114	
CPI-U (NSA) for:			August 2024	314.796	September 2024	315.301	October 2024	315.664

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
December 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				0-1/8% 5-Year TIPS Series AE-2025 91282CAQ4 October 15, 2020 October 30, 2020 December 31, 2020	0-1/8% 10-Year TIPS Series A-2031 91282CBF7 January 15, 2021 January 29, 2021 March 31, 2021 May 28, 2021	0-1/8% 30-Year TIPS TIPS of February 2051 912810SV1 February 15, 2021 February 26, 2021 August 31, 2021	0-1/8% 5-Year TIPS Series X-2026 91282CCA7 April 15, 2021 April 30, 2021 June 30, 2021		
Maturity Date: Ref CPI on Dated Date:				October 15, 2025 259.46997	January 15, 2031 260.31619	February 15, 2051 260.35150	April 15, 2026 262.25027		
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
December	1	2024	315.30100	1.21517	1.21122	1.21106	1.20229		
December	2	2024	315.31271	1.21522	1.21127	1.21110	1.20234		
December	3	2024	315.32442	1.21526	1.21131	1.21115	1.20238		
December	4	2024	315.33613	1.21531	1.21136	1.21119	1.20242		
December	5	2024	315.34784	1.21535	1.21140	1.21124	1.20247		
December	6	2024	315.35955	1.21540	1.21145	1.21128	1.20251		
December	7	2024	315.37126	1.21544	1.21149	1.21133	1.20256		
December	8	2024	315.38297	1.21549	1.21154	1.21137	1.20260		
December	9	2024	315.39468	1.21553	1.21158	1.21142	1.20265		
December	10	2024	315.40639	1.21558	1.21163	1.21146	1.20269		
December	11	2024	315.41810	1.21562	1.21167	1.21151	1.20274		
December	12	2024	315.42981	1.21567	1.21172	1.21155	1.20278		
December	13	2024	315.44152	1.21571	1.21176	1.21160	1.20283		
December	14	2024	315.45323	1.21576	1.21181	1.21164	1.20287		
December	15	2024	315.46494	1.21581	1.21185	1.21169	1.20292		
December	16	2024	315.47665	1.21585	1.21190	1.21173	1.20296		
December	17	2024	315.48835	1.21590	1.21194	1.21178	1.20300		
December	18	2024	315.50006	1.21594	1.21199	1.21182	1.20305		
December	19	2024	315.51177	1.21599	1.21203	1.21187	1.20309		
December	20	2024	315.52348	1.21603	1.21208	1.21191	1.20314		
December	21	2024	315.53519	1.21608	1.21212	1.21196	1.20318		
December	22	2024	315.54690	1.21612	1.21217	1.21200	1.20323		
December	23	2024	315.55861	1.21617	1.21221	1.21205	1.20327		
December	24	2024	315.57032	1.21621	1.21226	1.21209	1.20332		
December	25	2024	315.58203	1.21626	1.21230	1.21214	1.20336		
December	26	2024	315.59374	1.21630	1.21235	1.21218	1.20341		
December	27	2024	315.60545	1.21635	1.21239	1.21223	1.20345		
December	28	2024	315.61716	1.21639	1.21244	1.21227	1.20350		
December	29	2024	315.62887	1.21644	1.21248	1.21232	1.20354		
December	30	2024	315.64058	1.21648	1.21253	1.21236	1.20359		
December	31	2024	315.65229	1.21653	1.21257	1.21241	1.20363		
CPI-U (NSA) for:				August 2024	314.796	September 2024	315.301	October 2024	315.664

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
December 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				0-1/8% 10-Year TIPS Series D-2031 91282CCM1 July 15, 2021 July 30, 2021 September 30, 2021 November 30, 2021	0-1/8% 5-Year TIPS Series AE-2026 91282CDC2 October 15, 2021 October 29, 2021 December 31, 2021	0-1/8% 10-Year TIPS Series A-2032 91282CDX6 January 15, 2022 January 31, 2022 March 31, 2022 May 31, 2022	0-1/8% 30-Year TIPS TIPS of February 2052 912810TE8 February 15, 2022 February 28, 2022 August 31, 2022		
Maturity Date: Ref CPI on Dated Date:				July 15, 2031 268.02090	October 15, 2026 273.25771	January 15, 2032 277.20274	February 15, 2052 278.37500		
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
December	1	2024	315.30100	1.17640	1.15386	1.13744	1.13265		
December	2	2024	315.31271	1.17645	1.15390	1.13748	1.13269		
December	3	2024	315.32442	1.17649	1.15395	1.13752	1.13273		
December	4	2024	315.33613	1.17654	1.15399	1.13756	1.13277		
December	5	2024	315.34784	1.17658	1.15403	1.13761	1.13282		
December	6	2024	315.35955	1.17662	1.15407	1.13765	1.13286		
December	7	2024	315.37126	1.17667	1.15412	1.13769	1.13290		
December	8	2024	315.38297	1.17671	1.15416	1.13773	1.13294		
December	9	2024	315.39468	1.17675	1.15420	1.13778	1.13298		
December	10	2024	315.40639	1.17680	1.15425	1.13782	1.13303		
December	11	2024	315.41810	1.17684	1.15429	1.13786	1.13307		
December	12	2024	315.42981	1.17689	1.15433	1.13790	1.13311		
December	13	2024	315.44152	1.17693	1.15437	1.13795	1.13315		
December	14	2024	315.45323	1.17697	1.15442	1.13799	1.13320		
December	15	2024	315.46494	1.17702	1.15446	1.13803	1.13324		
December	16	2024	315.47665	1.17706	1.15450	1.13807	1.13328		
December	17	2024	315.48835	1.17710	1.15455	1.13811	1.13332		
December	18	2024	315.50006	1.17715	1.15459	1.13816	1.13336		
December	19	2024	315.51177	1.17719	1.15463	1.13820	1.13341		
December	20	2024	315.52348	1.17723	1.15467	1.13824	1.13345		
December	21	2024	315.53519	1.17728	1.15472	1.13828	1.13349		
December	22	2024	315.54690	1.17732	1.15476	1.13833	1.13353		
December	23	2024	315.55861	1.17737	1.15480	1.13837	1.13357		
December	24	2024	315.57032	1.17741	1.15485	1.13841	1.13362		
December	25	2024	315.58203	1.17745	1.15489	1.13845	1.13366		
December	26	2024	315.59374	1.17750	1.15493	1.13849	1.13370		
December	27	2024	315.60545	1.17754	1.15497	1.13854	1.13374		
December	28	2024	315.61716	1.17758	1.15502	1.13858	1.13378		
December	29	2024	315.62887	1.17763	1.15506	1.13862	1.13383		
December	30	2024	315.64058	1.17767	1.15510	1.13866	1.13387		
December	31	2024	315.65229	1.17772	1.15515	1.13871	1.13391		
CPI-U (NSA) for:				August 2024	314.796	September 2024	315.301	October 2024	315.664

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
December 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):				0-1/8% 5-Year TIPS Series X-2027 91282CEJ6 April 15, 2022 April 29, 2022 June 30, 2022	0-5/8% 10-Year TIPS Series D-2032 91282CEZ0 July 15, 2022 July 29, 2022 September 30, 2022 November 30, 2022	1-5/8% 5-Year TIPS Series AE-2027 91282CFR7 October 15, 2022 October 31, 2022 December 30, 2022	1-1/8% 10-Year TIPS Series A-2033 91282CGK1 January 15, 2023 January 31, 2023 March 31, 2023 May 31, 2023		
Maturity Date: Ref CPI on Dated Date:				April 15, 2027 282.34640	July 15, 2032 290.54829	October 15, 2027 296.22858	January 15, 2033 297.87606		
Date				Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
December	1	2024	315.30100	1.11672	1.08519	1.06438	1.05850		
December	2	2024	315.31271	1.11676	1.08523	1.06442	1.05854		
December	3	2024	315.32442	1.11680	1.08527	1.06446	1.05858		
December	4	2024	315.33613	1.11684	1.08531	1.06450	1.05862		
December	5	2024	315.34784	1.11688	1.08535	1.06454	1.05865		
December	6	2024	315.35955	1.11692	1.08539	1.06458	1.05869		
December	7	2024	315.37126	1.11697	1.08543	1.06462	1.05873		
December	8	2024	315.38297	1.11701	1.08548	1.06466	1.05877		
December	9	2024	315.39468	1.11705	1.08552	1.06470	1.05881		
December	10	2024	315.40639	1.11709	1.08556	1.06474	1.05885		
December	11	2024	315.41810	1.11713	1.08560	1.06478	1.05889		
December	12	2024	315.42981	1.11717	1.08564	1.06482	1.05893		
December	13	2024	315.44152	1.11721	1.08568	1.06486	1.05897		
December	14	2024	315.45323	1.11726	1.08572	1.06490	1.05901		
December	15	2024	315.46494	1.11730	1.08576	1.06494	1.05905		
December	16	2024	315.47665	1.11734	1.08580	1.06498	1.05909		
December	17	2024	315.48835	1.11738	1.08584	1.06502	1.05913		
December	18	2024	315.50006	1.11742	1.08588	1.06506	1.05917		
December	19	2024	315.51177	1.11746	1.08592	1.06510	1.05920		
December	20	2024	315.52348	1.11750	1.08596	1.06514	1.05924		
December	21	2024	315.53519	1.11755	1.08600	1.06517	1.05928		
December	22	2024	315.54690	1.11759	1.08604	1.06521	1.05932		
December	23	2024	315.55861	1.11763	1.08608	1.06525	1.05936		
December	24	2024	315.57032	1.11767	1.08612	1.06529	1.05940		
December	25	2024	315.58203	1.11771	1.08616	1.06533	1.05944		
December	26	2024	315.59374	1.11775	1.08620	1.06537	1.05948		
December	27	2024	315.60545	1.11780	1.08624	1.06541	1.05952		
December	28	2024	315.61716	1.11784	1.08628	1.06545	1.05956		
December	29	2024	315.62887	1.11788	1.08632	1.06549	1.05960		
December	30	2024	315.64058	1.11792	1.08636	1.06553	1.05964		
December	31	2024	315.65229	1.11796	1.08640	1.06557	1.05968		
CPI-U (NSA) for:				August 2024	314.796	September 2024	315.301	October 2024	315.664

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

December 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			1-1/2% 30-Year TIPS TIPS of February 2053 912810TP3 February 15, 2023 February 28, 2023 August 31, 2023	1-1/4% 5-Year TIPS Series X-2028 91282CGW5 April 15, 2023 April 28, 2023 June 30, 2023	1-3/8% 10-Year TIPS Series D-2033 91282CHP9 July 15, 2023 July 31, 2023 September 29, 2023 November 30, 2023	2-3/8% 5-Year TIPS Series AE-2028 91282CJH5 October 15, 2023 October 31, 2023 December 29, 2023		
Maturity Date: Ref CPI on Dated Date:			February 15, 2053 297.25400	April 15, 2028 299.94933	July 15, 2033 303.70803	October 15, 2028 306.29390		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
December	1	2024	315.30100	1.06071	1.05118	1.03817	1.02941	
December	2	2024	315.31271	1.06075	1.05122	1.03821	1.02944	
December	3	2024	315.32442	1.06079	1.05126	1.03825	1.02948	
December	4	2024	315.33613	1.06083	1.05130	1.03829	1.02952	
December	5	2024	315.34784	1.06087	1.05134	1.03833	1.02956	
December	6	2024	315.35955	1.06091	1.05138	1.03836	1.02960	
December	7	2024	315.37126	1.06095	1.05142	1.03840	1.02964	
December	8	2024	315.38297	1.06099	1.05145	1.03844	1.02967	
December	9	2024	315.39468	1.06103	1.05149	1.03848	1.02971	
December	10	2024	315.40639	1.06107	1.05153	1.03852	1.02975	
December	11	2024	315.41810	1.06111	1.05157	1.03856	1.02979	
December	12	2024	315.42981	1.06115	1.05161	1.03860	1.02983	
December	13	2024	315.44152	1.06119	1.05165	1.03863	1.02987	
December	14	2024	315.45323	1.06122	1.05169	1.03867	1.02990	
December	15	2024	315.46494	1.06126	1.05173	1.03871	1.02994	
December	16	2024	315.47665	1.06130	1.05177	1.03875	1.02998	
December	17	2024	315.48835	1.06134	1.05181	1.03879	1.03002	
December	18	2024	315.50006	1.06138	1.05184	1.03883	1.03006	
December	19	2024	315.51177	1.06142	1.05188	1.03887	1.03009	
December	20	2024	315.52348	1.06146	1.05192	1.03890	1.03013	
December	21	2024	315.53519	1.06150	1.05196	1.03894	1.03017	
December	22	2024	315.54690	1.06154	1.05200	1.03898	1.03021	
December	23	2024	315.55861	1.06158	1.05204	1.03902	1.03025	
December	24	2024	315.57032	1.06162	1.05208	1.03906	1.03029	
December	25	2024	315.58203	1.06166	1.05212	1.03910	1.03032	
December	26	2024	315.59374	1.06170	1.05216	1.03914	1.03036	
December	27	2024	315.60545	1.06174	1.05220	1.03917	1.03040	
December	28	2024	315.61716	1.06178	1.05223	1.03921	1.03044	
December	29	2024	315.62887	1.06182	1.05227	1.03925	1.03048	
December	30	2024	315.64058	1.06185	1.05231	1.03929	1.03052	
December	31	2024	315.65229	1.06189	1.05235	1.03933	1.03055	
CPI-U (NSA) for:			August 2024	314.796	September 2024	315.301	October 2024	315.664

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)

Ref CPI and Index Ratios for

December 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			1-3/4% 10-Year TIPS Series A-2034 91282CJY8 January 15, 2024 January 31, 2024 March 28, 2024 May 31, 2024	2-1/8% 30-Year TIPS TIPS of February 2054 912810TY4 February 15, 2024 February 29, 2024 August 30, 2024	2-1/8% 5-Year TIPS Series X-2029 91282CKL4 April 15, 2024 April 30, 2024 June 28, 2024	1-7/8% 10-Year TIPS Series D-2034 91282CLE9 July 15, 2024 July 31, 2024 September 30, 2024		
Maturity Date: Ref CPI on Dated Date:			January 15, 2034 307.39100	February 15, 2054 306.90376	April 15, 2029 309.30787	July 15, 2034 313.78329		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
December	1	2024	315.30100	1.02573	1.02736	1.01938	1.00484	
December	2	2024	315.31271	1.02577	1.02740	1.01941	1.00487	
December	3	2024	315.32442	1.02581	1.02744	1.01945	1.00491	
December	4	2024	315.33613	1.02585	1.02748	1.01949	1.00495	
December	5	2024	315.34784	1.02589	1.02751	1.01953	1.00499	
December	6	2024	315.35955	1.02592	1.02755	1.01957	1.00502	
December	7	2024	315.37126	1.02596	1.02759	1.01960	1.00506	
December	8	2024	315.38297	1.02600	1.02763	1.01964	1.00510	
December	9	2024	315.39468	1.02604	1.02767	1.01968	1.00514	
December	10	2024	315.40639	1.02608	1.02770	1.01972	1.00517	
December	11	2024	315.41810	1.02611	1.02774	1.01975	1.00521	
December	12	2024	315.42981	1.02615	1.02778	1.01979	1.00525	
December	13	2024	315.44152	1.02619	1.02782	1.01983	1.00528	
December	14	2024	315.45323	1.02623	1.02786	1.01987	1.00532	
December	15	2024	315.46494	1.02627	1.02790	1.01991	1.00536	
December	16	2024	315.47665	1.02630	1.02793	1.01994	1.00540	
December	17	2024	315.48835	1.02634	1.02797	1.01998	1.00543	
December	18	2024	315.50006	1.02638	1.02801	1.02002	1.00547	
December	19	2024	315.51177	1.02642	1.02805	1.02006	1.00551	
December	20	2024	315.52348	1.02646	1.02809	1.02010	1.00555	
December	21	2024	315.53519	1.02649	1.02812	1.02013	1.00558	
December	22	2024	315.54690	1.02653	1.02816	1.02017	1.00562	
December	23	2024	315.55861	1.02657	1.02820	1.02021	1.00566	
December	24	2024	315.57032	1.02661	1.02824	1.02025	1.00570	
December	25	2024	315.58203	1.02665	1.02828	1.02028	1.00573	
December	26	2024	315.59374	1.02669	1.02832	1.02032	1.00577	
December	27	2024	315.60545	1.02672	1.02835	1.02036	1.00581	
December	28	2024	315.61716	1.02676	1.02839	1.02040	1.00584	
December	29	2024	315.62887	1.02680	1.02843	1.02044	1.00588	
December	30	2024	315.64058	1.02684	1.02847	1.02047	1.00592	
December	31	2024	315.65229	1.02688	1.02851	1.02051	1.00596	
CPI-U (NSA) for:			August 2024	314.796	September 2024	315.301	October 2024	315.664

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
December 2024

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s): Maturity Date: Ref CPI on Dated Date:			1-5/8% 5-Year TIPS Series AE-2029 91282CLV1 October 15, 2024 October 31, 2024 October 15, 2029 314.65561			
Date			Ref CPI	Index Ratio		
December	1	2024	315.30100	1.00205		
December	2	2024	315.31271	1.00209		
December	3	2024	315.32442	1.00213		
December	4	2024	315.33613	1.00216		
December	5	2024	315.34784	1.00220		
December	6	2024	315.35955	1.00224		
December	7	2024	315.37126	1.00227		
December	8	2024	315.38297	1.00231		
December	9	2024	315.39468	1.00235		
December	10	2024	315.40639	1.00239		
December	11	2024	315.41810	1.00242		
December	12	2024	315.42981	1.00246		
December	13	2024	315.44152	1.00250		
December	14	2024	315.45323	1.00253		
December	15	2024	315.46494	1.00257		
December	16	2024	315.47665	1.00261		
December	17	2024	315.48835	1.00265		
December	18	2024	315.50006	1.00268		
December	19	2024	315.51177	1.00272		
December	20	2024	315.52348	1.00276		
December	21	2024	315.53519	1.00280		
December	22	2024	315.54690	1.00283		
December	23	2024	315.55861	1.00287		
December	24	2024	315.57032	1.00291		
December	25	2024	315.58203	1.00294		
December	26	2024	315.59374	1.00298		
December	27	2024	315.60545	1.00302		
December	28	2024	315.61716	1.00306		
December	29	2024	315.62887	1.00309		
December	30	2024	315.64058	1.00313		
December	31	2024	315.65229	1.00317		
CPI-U (NSA) for:			August 2024	314.796	September 2024	315.301
					October 2024	315.664