

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**January 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:			TIPS of April 2028	TIPS of April 2029	TIPS of April 2032	TIPS of January 2025		
CUSIP Number:			912810FD5	912810FH6	912810FQ6	912810FR4		
Dated Date:			April 15, 1998	April 15, 1999	October 15, 2001	July 15, 2004		
Original Issue Date:			April 15, 1998	April 15, 1999	October 15, 2001	July 30, 2004		
Additional Issue Date(s):			July 15, 1998	October 15, 1999 October 16, 2000	October 15, 2001	January 31, 2005 July 29, 2005		
Maturity Date:			April 15, 2028	April 15, 2029	April 15, 2032	January 15, 2025		
Ref CPI on Dated Date:			161.74000	164.39333	177.50000	188.49677		
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January	1	2024	307.67100	1.90226	1.87155	1.73336	1.63223	
January	2	2024	307.65100	1.90213	1.87143	1.73325	1.63213	
January	3	2024	307.63100	1.90201	1.87131	1.73313	1.63202	
January	4	2024	307.61100	1.90189	1.87119	1.73302	1.63192	
January	5	2024	307.59100	1.90176	1.87107	1.73291	1.63181	
January	6	2024	307.57100	1.90164	1.87095	1.73279	1.63170	
January	7	2024	307.55100	1.90151	1.87082	1.73268	1.63160	
January	8	2024	307.53100	1.90139	1.87070	1.73257	1.63149	
January	9	2024	307.51100	1.90127	1.87058	1.73246	1.63139	
January	10	2024	307.49100	1.90114	1.87046	1.73234	1.63128	
January	11	2024	307.47100	1.90102	1.87034	1.73223	1.63117	
January	12	2024	307.45100	1.90090	1.87022	1.73212	1.63107	
January	13	2024	307.43100	1.90077	1.87009	1.73201	1.63096	
January	14	2024	307.41100	1.90065	1.86997	1.73189	1.63086	
January	15	2024	307.39100	1.90053	1.86985	1.73178	1.63075	
January	16	2024	307.37100	1.90040	1.86973	1.73167	1.63064	
January	17	2024	307.35100	1.90028	1.86961	1.73155	1.63054	
January	18	2024	307.33100	1.90015	1.86949	1.73144	1.63043	
January	19	2024	307.31100	1.90003	1.86936	1.73133	1.63033	
January	20	2024	307.29100	1.89991	1.86924	1.73122	1.63022	
January	21	2024	307.27100	1.89978	1.86912	1.73110	1.63011	
January	22	2024	307.25100	1.89966	1.86900	1.73099	1.63001	
January	23	2024	307.23100	1.89954	1.86888	1.73088	1.62990	
January	24	2024	307.21100	1.89941	1.86876	1.73077	1.62979	
January	25	2024	307.19100	1.89929	1.86863	1.73065	1.62969	
January	26	2024	307.17100	1.89917	1.86851	1.73054	1.62958	
January	27	2024	307.15100	1.89904	1.86839	1.73043	1.62948	
January	28	2024	307.13100	1.89892	1.86827	1.73032	1.62937	
January	29	2024	307.11100	1.89879	1.86815	1.73020	1.62926	
January	30	2024	307.09100	1.89867	1.86803	1.73009	1.62916	
January	31	2024	307.07100	1.89855	1.86790	1.72998	1.62905	
<b>CPI-U (NSA) for:</b>			<b>September 2023</b>	<b>307.789</b>	<b>October 2023</b>	<b>307.671</b>	<b>November 2023</b>	<b>307.051</b>

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			2% 20-Year TIPS TIPS of January 2026 912810FS2 January 15, 2006 January 31, 2006 July 31, 2006	2-3/8% 20-Year TIPS TIPS of January 2027 912810PS1 January 15, 2007 January 31, 2007 July 31, 2007	1-3/4% 20-Year TIPS TIPS of January 2028 912810PV4 January 15, 2008 January 31, 2008 July 31, 2008	2-1/2% 20-Year TIPS TIPS of January 2029 912810PZ5 January 15, 2009 January 30, 2009 July 31, 2009
Maturity Date: Ref CPI on Dated Date:			January 15, 2026 198.47742	January 15, 2027 201.66452	January 15, 2028 209.49645	January 15, 2029 214.69971
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January 1 2024	307.67100	1.55016	1.52566	1.46862	1.43303	
January 2 2024	307.65100	1.55006	1.52556	1.46853	1.43294	
January 3 2024	307.63100	1.54995	1.52546	1.46843	1.43284	
January 4 2024	307.61100	1.54985	1.52536	1.46834	1.43275	
January 5 2024	307.59100	1.54975	1.52526	1.46824	1.43266	
January 6 2024	307.57100	1.54965	1.52516	1.46814	1.43256	
January 7 2024	307.55100	1.54955	1.52506	1.46805	1.43247	
January 8 2024	307.53100	1.54945	1.52496	1.46795	1.43238	
January 9 2024	307.51100	1.54935	1.52486	1.46786	1.43228	
January 10 2024	307.49100	1.54925	1.52476	1.46776	1.43219	
January 11 2024	307.47100	1.54915	1.52467	1.46767	1.43210	
January 12 2024	307.45100	1.54905	1.52457	1.46757	1.43200	
January 13 2024	307.43100	1.54895	1.52447	1.46748	1.43191	
January 14 2024	307.41100	1.54885	1.52437	1.46738	1.43182	
January 15 2024	307.39100	1.54875	1.52427	1.46729	1.43173	
January 16 2024	307.37100	1.54864	1.52417	1.46719	1.43163	
January 17 2024	307.35100	1.54854	1.52407	1.46709	1.43154	
January 18 2024	307.33100	1.54844	1.52397	1.46700	1.43145	
January 19 2024	307.31100	1.54834	1.52387	1.46690	1.43135	
January 20 2024	307.29100	1.54824	1.52377	1.46681	1.43126	
January 21 2024	307.27100	1.54814	1.52367	1.46671	1.43117	
January 22 2024	307.25100	1.54804	1.52357	1.46662	1.43107	
January 23 2024	307.23100	1.54794	1.52348	1.46652	1.43098	
January 24 2024	307.21100	1.54784	1.52338	1.46643	1.43089	
January 25 2024	307.19100	1.54774	1.52328	1.46633	1.43079	
January 26 2024	307.17100	1.54764	1.52318	1.46623	1.43070	
January 27 2024	307.15100	1.54754	1.52308	1.46614	1.43061	
January 28 2024	307.13100	1.54744	1.52298	1.46604	1.43051	
January 29 2024	307.11100	1.54733	1.52288	1.46595	1.43042	
January 30 2024	307.09100	1.54723	1.52278	1.46585	1.43033	
January 31 2024	307.07100	1.54713	1.52268	1.46576	1.43023	
<b>CPI-U (NSA) for:</b>	<b>September 2023</b>	<b>307.789</b>	<b>October 2023</b>	<b>307.671</b>	<b>November 2023</b>	<b>307.051</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**January 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	
January 1 2024	307.67100	1.42348	1.40495	1.36161	1.33822	
January 2 2024	307.65100	1.42339	1.40486	1.36152	1.33813	
January 3 2024	307.63100	1.42330	1.40477	1.36144	1.33804	
January 4 2024	307.61100	1.42321	1.40467	1.36135	1.33796	
January 5 2024	307.59100	1.42311	1.40458	1.36126	1.33787	
January 6 2024	307.57100	1.42302	1.40449	1.36117	1.33778	
January 7 2024	307.55100	1.42293	1.40440	1.36108	1.33770	
January 8 2024	307.53100	1.42284	1.40431	1.36099	1.33761	
January 9 2024	307.51100	1.42274	1.40422	1.36091	1.33752	
January 10 2024	307.49100	1.42265	1.40413	1.36082	1.33743	
January 11 2024	307.47100	1.42256	1.40403	1.36073	1.33735	
January 12 2024	307.45100	1.42247	1.40394	1.36064	1.33726	
January 13 2024	307.43100	1.42237	1.40385	1.36055	1.33717	
January 14 2024	307.41100	1.42228	1.40376	1.36046	1.33709	
January 15 2024	307.39100	1.42219	1.40367	1.36037	1.33700	
January 16 2024	307.37100	1.42210	1.40358	1.36029	1.33691	
January 17 2024	307.35100	1.42200	1.40349	1.36020	1.33683	
January 18 2024	307.33100	1.42191	1.40340	1.36011	1.33674	
January 19 2024	307.31100	1.42182	1.40330	1.36002	1.33665	
January 20 2024	307.29100	1.42173	1.40321	1.35993	1.33657	
January 21 2024	307.27100	1.42163	1.40312	1.35984	1.33648	
January 22 2024	307.25100	1.42154	1.40303	1.35975	1.33639	
January 23 2024	307.23100	1.42145	1.40294	1.35967	1.33630	
January 24 2024	307.21100	1.42136	1.40285	1.35958	1.33622	
January 25 2024	307.19100	1.42126	1.40276	1.35949	1.33613	
January 26 2024	307.17100	1.42117	1.40266	1.35940	1.33604	
January 27 2024	307.15100	1.42108	1.40257	1.35931	1.33596	
January 28 2024	307.13100	1.42099	1.40248	1.35922	1.33587	
January 29 2024	307.11100	1.42089	1.40239	1.35914	1.33578	
January 30 2024	307.09100	1.42080	1.40230	1.35905	1.33570	
January 31 2024	307.07100	1.42071	1.40221	1.35896	1.33561	
<b>CPI-U (NSA) for:</b>			<b>September 2023 307.789</b>	<b>October 2023 307.671</b>	<b>November 2023 307.051</b>	

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

Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January	1	2024	307.67100	1.31861	1.32014	1.29575	1.29899	
January	2	2024	307.65100	1.31852	1.32006	1.29567	1.29891	
January	3	2024	307.63100	1.31843	1.31997	1.29558	1.29882	
January	4	2024	307.61100	1.31835	1.31988	1.29550	1.29874	
January	5	2024	307.59100	1.31826	1.31980	1.29541	1.29865	
January	6	2024	307.57100	1.31818	1.31971	1.29533	1.29857	
January	7	2024	307.55100	1.31809	1.31963	1.29525	1.29848	
January	8	2024	307.53100	1.31801	1.31954	1.29516	1.29840	
January	9	2024	307.51100	1.31792	1.31946	1.29508	1.29831	
January	10	2024	307.49100	1.31783	1.31937	1.29499	1.29823	
January	11	2024	307.47100	1.31775	1.31928	1.29491	1.29815	
January	12	2024	307.45100	1.31766	1.31920	1.29483	1.29806	
January	13	2024	307.43100	1.31758	1.31911	1.29474	1.29798	
January	14	2024	307.41100	1.31749	1.31903	1.29466	1.29789	
January	15	2024	307.39100	1.31741	1.31894	1.29457	1.29781	
January	16	2024	307.37100		1.31885	1.29449	1.29772	
January	17	2024	307.35100		1.31877	1.29440	1.29764	
January	18	2024	307.33100		1.31868	1.29432	1.29755	
January	19	2024	307.31100		1.31860	1.29424	1.29747	
January	20	2024	307.29100		1.31851	1.29415	1.29739	
January	21	2024	307.27100		1.31843	1.29407	1.29730	
January	22	2024	307.25100		1.31834	1.29398	1.29722	
January	23	2024	307.23100		1.31825	1.29390	1.29713	
January	24	2024	307.21100		1.31817	1.29381	1.29705	
January	25	2024	307.19100		1.31808	1.29373	1.29696	
January	26	2024	307.17100		1.31800	1.29365	1.29688	
January	27	2024	307.15100		1.31791	1.29356	1.29679	
January	28	2024	307.13100		1.31783	1.29348	1.29671	
January	29	2024	307.11100		1.31774	1.29339	1.29663	
January	30	2024	307.09100		1.31765	1.29331	1.29654	
January	31	2024	307.07100		1.31757	1.29322	1.29646	
<b>CPI-U (NSA) for:</b>			<b>September 2023</b>	<b>307.789</b>	<b>October 2023</b>	<b>307.671</b>	<b>November 2023</b>	<b>307.051</b>

<b>Security:</b>	<b>0-5/8% 10-Year TIPS</b>	<b>1-3/8% 30-Year TIPS</b>	<b>0-1/8% 10-Year TIPS</b>	<b>0-1/4% 10-Year TIPS</b>
<b>Description:</b>	<b>Series A-2024</b>	<b>TIPS of February 2044</b>	<b>Series D-2024</b>	<b>Series A-2025</b>
<b>CUSIP Number:</b>	<b>912828B25</b>	<b>912810RF7</b>	<b>912828WU0</b>	<b>912828H45</b>
<b>Dated Date:</b>	<b>January 15, 2014</b>	<b>February 15, 2014</b>	<b>July 15, 2014</b>	<b>January 15, 2015</b>
<b>Original Issue Date:</b>	<b>January 31, 2014</b>	<b>February 28, 2014</b>	<b>July 31, 2014</b>	<b>January 30, 2015</b>
<b>Additional Issue Date(s):</b>	<b>March 31, 2014</b> <b>May 30, 2014</b>	<b>June 30, 2014</b> <b>October 31, 2014</b>	<b>September 30, 2014</b> <b>November 28, 2014</b>	<b>March 31, 2015</b> <b>May 29, 2015</b>
<b>Maturity Date:</b>	<b>January 15, 2024</b>	<b>February 15, 2044</b>	<b>July 15, 2024</b>	<b>January 15, 2025</b>
<b>Ref CPI on Dated Date:</b>	<b>233.33058</b>	<b>233.05900</b>	<b>237.44594</b>	<b>236.85403</b>

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	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
Maturity Date: Ref CPI on Dated Date:			February 15, 2045 235.48150	July 15, 2025 237.14365	January 15, 2026 237.61129	February 15, 2046 236.94448
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January 1 2024	307.67100	1.30656	1.29740	1.29485	1.29849	
January 2 2024	307.65100	1.30648	1.29732	1.29477	1.29841	
January 3 2024	307.63100	1.30639	1.29723	1.29468	1.29833	
January 4 2024	307.61100	1.30631	1.29715	1.29460	1.29824	
January 5 2024	307.59100	1.30622	1.29707	1.29451	1.29816	
January 6 2024	307.57100	1.30614	1.29698	1.29443	1.29807	
January 7 2024	307.55100	1.30605	1.29690	1.29435	1.29799	
January 8 2024	307.53100	1.30597	1.29681	1.29426	1.29790	
January 9 2024	307.51100	1.30588	1.29673	1.29418	1.29782	
January 10 2024	307.49100	1.30580	1.29664	1.29409	1.29773	
January 11 2024	307.47100	1.30571	1.29656	1.29401	1.29765	
January 12 2024	307.45100	1.30563	1.29648	1.29392	1.29757	
January 13 2024	307.43100	1.30554	1.29639	1.29384	1.29748	
January 14 2024	307.41100	1.30546	1.29631	1.29376	1.29740	
January 15 2024	307.39100	1.30537	1.29622	1.29367	1.29731	
January 16 2024	307.37100	1.30529	1.29614	1.29359	1.29723	
January 17 2024	307.35100	1.30520	1.29605	1.29350	1.29714	
January 18 2024	307.33100	1.30512	1.29597	1.29342	1.29706	
January 19 2024	307.31100	1.30503	1.29589	1.29334	1.29697	
January 20 2024	307.29100	1.30495	1.29580	1.29325	1.29689	
January 21 2024	307.27100	1.30486	1.29572	1.29317	1.29681	
January 22 2024	307.25100	1.30478	1.29563	1.29308	1.29672	
January 23 2024	307.23100	1.30469	1.29555	1.29300	1.29664	
January 24 2024	307.21100	1.30461	1.29546	1.29291	1.29655	
January 25 2024	307.19100	1.30452	1.29538	1.29283	1.29647	
January 26 2024	307.17100	1.30444	1.29530	1.29275	1.29638	
January 27 2024	307.15100	1.30435	1.29521	1.29266	1.29630	
January 28 2024	307.13100	1.30427	1.29513	1.29258	1.29622	
January 29 2024	307.11100	1.30418	1.29504	1.29249	1.29613	
January 30 2024	307.09100	1.30410	1.29496	1.29241	1.29605	
January 31 2024	307.07100	1.30401	1.29487	1.29232	1.29596	
<b>CPI-U (NSA) for:</b>	<b>September 2023</b>	<b>307.789</b>	<b>October 2023</b>	<b>307.671</b>	<b>November 2023</b>	<b>307.051</b>

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	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 912828L3 July 15, 2017 July 31, 2017 September 29, 2017 November 30, 2017
Maturity Date: Ref CPI on Dated Date:			July 15, 2026 239.70132	January 15, 2027 241.55919	February 15, 2047 241.39250	July 15, 2027 244.61839
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January 1 2024	307.67100	1.28356	1.27369	1.27457	1.25776	
January 2 2024	307.65100	1.28348	1.27361	1.27448	1.25768	
January 3 2024	307.63100	1.28339	1.27352	1.27440	1.25760	
January 4 2024	307.61100	1.28331	1.27344	1.27432	1.25751	
January 5 2024	307.59100	1.28323	1.27336	1.27424	1.25743	
January 6 2024	307.57100	1.28314	1.27327	1.27415	1.25735	
January 7 2024	307.55100	1.28306	1.27319	1.27407	1.25727	
January 8 2024	307.53100	1.28298	1.27311	1.27399	1.25719	
January 9 2024	307.51100	1.28289	1.27303	1.27390	1.25710	
January 10 2024	307.49100	1.28281	1.27294	1.27382	1.25702	
January 11 2024	307.47100	1.28273	1.27286	1.27374	1.25694	
January 12 2024	307.45100	1.28264	1.27278	1.27366	1.25686	
January 13 2024	307.43100	1.28256	1.27269	1.27357	1.25678	
January 14 2024	307.41100	1.28248	1.27261	1.27349	1.25670	
January 15 2024	307.39100	1.28239	1.27253	1.27341	1.25661	
January 16 2024	307.37100	1.28231	1.27245	1.27332	1.25653	
January 17 2024	307.35100	1.28222	1.27236	1.27324	1.25645	
January 18 2024	307.33100	1.28214	1.27228	1.27316	1.25637	
January 19 2024	307.31100	1.28206	1.27220	1.27308	1.25629	
January 20 2024	307.29100	1.28197	1.27211	1.27299	1.25621	
January 21 2024	307.27100	1.28189	1.27203	1.27291	1.25612	
January 22 2024	307.25100	1.28181	1.27195	1.27283	1.25604	
January 23 2024	307.23100	1.28172	1.27187	1.27274	1.25596	
January 24 2024	307.21100	1.28164	1.27178	1.27266	1.25588	
January 25 2024	307.19100	1.28156	1.27170	1.27258	1.25580	
January 26 2024	307.17100	1.28147	1.27162	1.27250	1.25572	
January 27 2024	307.15100	1.28139	1.27154	1.27241	1.25563	
January 28 2024	307.13100	1.28131	1.27145	1.27233	1.25555	
January 29 2024	307.11100	1.28122	1.27137	1.27225	1.25547	
January 30 2024	307.09100	1.28114	1.27129	1.27216	1.25539	
January 31 2024	307.07100	1.28106	1.27120	1.27208	1.25531	
<b>CPI-U (NSA) for:</b>	<b>September 2023</b>	<b>307.789</b>	<b>October 2023</b>	<b>307.671</b>	<b>November 2023</b>	<b>307.051</b>

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	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
Maturity Date: Ref CPI on Dated Date:			January 15, 2028 246.66571	February 15, 2048 246.59650	July 15, 2028 251.01658	January 15, 2029 252.50248
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January 1 2024	307.67100	1.24732	1.24767	1.22570	1.21849	
January 2 2024	307.65100	1.24724	1.24759	1.22562	1.21841	
January 3 2024	307.63100	1.24716	1.24751	1.22554	1.21833	
January 4 2024	307.61100	1.24708	1.24743	1.22546	1.21825	
January 5 2024	307.59100	1.24700	1.24735	1.22538	1.21817	
January 6 2024	307.57100	1.24691	1.24726	1.22530	1.21809	
January 7 2024	307.55100	1.24683	1.24718	1.22522	1.21801	
January 8 2024	307.53100	1.24675	1.24710	1.22514	1.21793	
January 9 2024	307.51100	1.24667	1.24702	1.22506	1.21785	
January 10 2024	307.49100	1.24659	1.24694	1.22498	1.21777	
January 11 2024	307.47100	1.24651	1.24686	1.22490	1.21769	
January 12 2024	307.45100	1.24643	1.24678	1.22482	1.21762	
January 13 2024	307.43100	1.24635	1.24670	1.22474	1.21754	
January 14 2024	307.41100	1.24627	1.24662	1.22466	1.21746	
January 15 2024	307.39100	1.24618	1.24653	1.22458	1.21738	
January 16 2024	307.37100	1.24610	1.24645	1.22450	1.21730	
January 17 2024	307.35100	1.24602	1.24637	1.22443	1.21722	
January 18 2024	307.33100	1.24594	1.24629	1.22435	1.21714	
January 19 2024	307.31100	1.24586	1.24621	1.22427	1.21706	
January 20 2024	307.29100	1.24578	1.24613	1.22419	1.21698	
January 21 2024	307.27100	1.24570	1.24605	1.22411	1.21690	
January 22 2024	307.25100	1.24562	1.24597	1.22403	1.21682	
January 23 2024	307.23100	1.24554	1.24589	1.22395	1.21674	
January 24 2024	307.21100	1.24545	1.24580	1.22387	1.21667	
January 25 2024	307.19100	1.24537	1.24572	1.22379	1.21659	
January 26 2024	307.17100	1.24529	1.24564	1.22371	1.21651	
January 27 2024	307.15100	1.24521	1.24556	1.22363	1.21643	
January 28 2024	307.13100	1.24513	1.24548	1.22355	1.21635	
January 29 2024	307.11100	1.24505	1.24540	1.22347	1.21627	
January 30 2024	307.09100	1.24497	1.24532	1.22339	1.21619	
January 31 2024	307.07100	1.24489	1.24524	1.22331	1.21611	
CPI-U (NSA) for:		September 2023 307.789	October 2023 307.671	November 2023 307.051		

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			1% 30-Year TIPS TIPS of February 2049 912810SG4 February 15, 2019 February 28, 2019 August 30, 2019	0-1/2% 5-Year TIPS Series X-2024 9128286N5 April 15, 2019 April 30, 2019 June 28, 2019	0-1/4% 10-Year TIPS Series D-2029 9128287D6 July 15, 2019 July 31, 2019 September 30, 2019 November 29, 2019	0-1/8% 5-Year TIPS Series AE-2024 912828YL8 October 15, 2019 October 31, 2019 December 31, 2019
Maturity Date: Ref CPI on Dated Date:			February 15, 2049 251.63550	April 15, 2024 252.20853	July 15, 2029 255.79368	October 15, 2024 256.56513
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January 1 2024	307.67100	1.22269	1.21991	1.20281	1.19919	
January 2 2024	307.65100	1.22261	1.21983	1.20273	1.19911	
January 3 2024	307.63100	1.22253	1.21975	1.20265	1.19904	
January 4 2024	307.61100	1.22245	1.21967	1.20257	1.19896	
January 5 2024	307.59100	1.22237	1.21959	1.20250	1.19888	
January 6 2024	307.57100	1.22229	1.21951	1.20242	1.19880	
January 7 2024	307.55100	1.22221	1.21943	1.20234	1.19872	
January 8 2024	307.53100	1.22213	1.21935	1.20226	1.19865	
January 9 2024	307.51100	1.22205	1.21927	1.20218	1.19857	
January 10 2024	307.49100	1.22197	1.21919	1.20211	1.19849	
January 11 2024	307.47100	1.22189	1.21911	1.20203	1.19841	
January 12 2024	307.45100	1.22181	1.21903	1.20195	1.19834	
January 13 2024	307.43100	1.22173	1.21896	1.20187	1.19826	
January 14 2024	307.41100	1.22165	1.21888	1.20179	1.19818	
January 15 2024	307.39100	1.22157	1.21880	1.20171	1.19810	
January 16 2024	307.37100	1.22149	1.21872	1.20164	1.19802	
January 17 2024	307.35100	1.22141	1.21864	1.20156	1.19795	
January 18 2024	307.33100	1.22133	1.21856	1.20148	1.19787	
January 19 2024	307.31100	1.22125	1.21848	1.20140	1.19779	
January 20 2024	307.29100	1.22118	1.21840	1.20132	1.19771	
January 21 2024	307.27100	1.22110	1.21832	1.20125	1.19763	
January 22 2024	307.25100	1.22102	1.21824	1.20117	1.19756	
January 23 2024	307.23100	1.22094	1.21816	1.20109	1.19748	
January 24 2024	307.21100	1.22086	1.21808	1.20101	1.19740	
January 25 2024	307.19100	1.22078	1.21800	1.20093	1.19732	
January 26 2024	307.17100	1.22070	1.21792	1.20085	1.19724	
January 27 2024	307.15100	1.22062	1.21785	1.20078	1.19717	
January 28 2024	307.13100	1.22054	1.21777	1.20070	1.19709	
January 29 2024	307.11100	1.22046	1.21769	1.20062	1.19701	
January 30 2024	307.09100	1.22038	1.21761	1.20054	1.19693	
January 31 2024	307.07100	1.22030	1.21753	1.20046	1.19685	
<b>CPI-U (NSA) for:</b>	<b>September 2023</b>	<b>307.789</b>	<b>October 2023</b>	<b>307.671</b>	<b>November 2023</b>	<b>307.051</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**January 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	
January 1 2024	307.67100	1.19584	1.19672	1.19113	1.20001	
January 2 2024	307.65100	1.19577	1.19664	1.19106	1.19993	
January 3 2024	307.63100	1.19569	1.19657	1.19098	1.19985	
January 4 2024	307.61100	1.19561	1.19649	1.19090	1.19977	
January 5 2024	307.59100	1.19553	1.19641	1.19082	1.19969	
January 6 2024	307.57100	1.19545	1.19633	1.19075	1.19962	
January 7 2024	307.55100	1.19538	1.19625	1.19067	1.19954	
January 8 2024	307.53100	1.19530	1.19618	1.19059	1.19946	
January 9 2024	307.51100	1.19522	1.19610	1.19051	1.19938	
January 10 2024	307.49100	1.19514	1.19602	1.19044	1.19930	
January 11 2024	307.47100	1.19507	1.19594	1.19036	1.19923	
January 12 2024	307.45100	1.19499	1.19587	1.19028	1.19915	
January 13 2024	307.43100	1.19491	1.19579	1.19020	1.19907	
January 14 2024	307.41100	1.19483	1.19571	1.19013	1.19899	
January 15 2024	307.39100	1.19476	1.19563	1.19005	1.19891	
January 16 2024	307.37100	1.19468	1.19555	1.18997	1.19884	
January 17 2024	307.35100	1.19460	1.19548	1.18990	1.19876	
January 18 2024	307.33100	1.19452	1.19540	1.18982	1.19868	
January 19 2024	307.31100	1.19444	1.19532	1.18974	1.19860	
January 20 2024	307.29100	1.19437	1.19524	1.18966	1.19852	
January 21 2024	307.27100	1.19429	1.19517	1.18959	1.19845	
January 22 2024	307.25100	1.19421	1.19509	1.18951	1.19837	
January 23 2024	307.23100	1.19413	1.19501	1.18943	1.19829	
January 24 2024	307.21100	1.19406	1.19493	1.18935	1.19821	
January 25 2024	307.19100	1.19398	1.19485	1.18928	1.19813	
January 26 2024	307.17100	1.19390	1.19478	1.18920	1.19806	
January 27 2024	307.15100	1.19382	1.19470	1.18912	1.19798	
January 28 2024	307.13100	1.19374	1.19462	1.18904	1.19790	
January 29 2024	307.11100	1.19367	1.19454	1.18897	1.19782	
January 30 2024	307.09100	1.19359	1.19446	1.18889	1.19774	
January 31 2024	307.07100	1.19351	1.19439	1.18881	1.19767	
<b>CPI-U (NSA) for:</b>	<b>September 2023</b>	<b>307.789</b>	<b>October 2023</b>	<b>307.671</b>	<b>November 2023</b>	<b>307.051</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**January 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	
January 1 2024	307.67100	1.18577	1.18191	1.18175	1.17320	
January 2 2024	307.65100	1.18569	1.18184	1.18168	1.17312	
January 3 2024	307.63100	1.18561	1.18176	1.18160	1.17304	
January 4 2024	307.61100	1.18554	1.18168	1.18152	1.17297	
January 5 2024	307.59100	1.18546	1.18161	1.18145	1.17289	
January 6 2024	307.57100	1.18538	1.18153	1.18137	1.17281	
January 7 2024	307.55100	1.18530	1.18145	1.18129	1.17274	
January 8 2024	307.53100	1.18523	1.18137	1.18121	1.17266	
January 9 2024	307.51100	1.18515	1.18130	1.18114	1.17259	
January 10 2024	307.49100	1.18507	1.18122	1.18106	1.17251	
January 11 2024	307.47100	1.18500	1.18114	1.18098	1.17243	
January 12 2024	307.45100	1.18492	1.18107	1.18091	1.17236	
January 13 2024	307.43100	1.18484	1.18099	1.18083	1.17228	
January 14 2024	307.41100	1.18477	1.18091	1.18075	1.17220	
January 15 2024	307.39100	1.18469	1.18084	1.18068	1.17213	
January 16 2024	307.37100	1.18461	1.18076	1.18060	1.17205	
January 17 2024	307.35100	1.18453	1.18068	1.18052	1.17198	
January 18 2024	307.33100	1.18446	1.18061	1.18045	1.17190	
January 19 2024	307.31100	1.18438	1.18053	1.18037	1.17182	
January 20 2024	307.29100	1.18430	1.18045	1.18029	1.17175	
January 21 2024	307.27100	1.18423	1.18038	1.18022	1.17167	
January 22 2024	307.25100	1.18415	1.18030	1.18014	1.17159	
January 23 2024	307.23100	1.18407	1.18022	1.18006	1.17152	
January 24 2024	307.21100	1.18399	1.18015	1.17999	1.17144	
January 25 2024	307.19100	1.18392	1.18007	1.17991	1.17137	
January 26 2024	307.17100	1.18384	1.17999	1.17983	1.17129	
January 27 2024	307.15100	1.18376	1.17992	1.17976	1.17121	
January 28 2024	307.13100	1.18369	1.17984	1.17968	1.17114	
January 29 2024	307.11100	1.18361	1.17976	1.17960	1.17106	
January 30 2024	307.09100	1.18353	1.17968	1.17952	1.17098	
January 31 2024	307.07100	1.18345	1.17961	1.17945	1.17091	
<b>CPI-U (NSA) for:</b>	<b>September 2023</b>	<b>307.789</b>	<b>October 2023</b>	<b>307.671</b>	<b>November 2023</b>	<b>307.051</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**January 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	
January 1 2024	307.67100	1.14794	1.12594	1.10991	1.10524	
January 2 2024	307.65100	1.14786	1.12586	1.10984	1.10517	
January 3 2024	307.63100	1.14779	1.12579	1.10977	1.10510	
January 4 2024	307.61100	1.14771	1.12572	1.10970	1.10502	
January 5 2024	307.59100	1.14764	1.12564	1.10962	1.10495	
January 6 2024	307.57100	1.14756	1.12557	1.10955	1.10488	
January 7 2024	307.55100	1.14749	1.12550	1.10948	1.10481	
January 8 2024	307.53100	1.14741	1.12542	1.10941	1.10474	
January 9 2024	307.51100	1.14734	1.12535	1.10934	1.10466	
January 10 2024	307.49100	1.14727	1.12528	1.10926	1.10459	
January 11 2024	307.47100	1.14719	1.12521	1.10919	1.10452	
January 12 2024	307.45100	1.14712	1.12513	1.10912	1.10445	
January 13 2024	307.43100	1.14704	1.12506	1.10905	1.10438	
January 14 2024	307.41100	1.14697	1.12499	1.10898	1.10431	
January 15 2024	307.39100	1.14689	1.12491	1.10890	1.10423	
January 16 2024	307.37100	1.14682	1.12484	1.10883	1.10416	
January 17 2024	307.35100	1.14674	1.12477	1.10876	1.10409	
January 18 2024	307.33100	1.14667	1.12469	1.10869	1.10402	
January 19 2024	307.31100	1.14659	1.12462	1.10861	1.10395	
January 20 2024	307.29100	1.14652	1.12455	1.10854	1.10387	
January 21 2024	307.27100	1.14644	1.12447	1.10847	1.10380	
January 22 2024	307.25100	1.14637	1.12440	1.10840	1.10373	
January 23 2024	307.23100	1.14629	1.12433	1.10833	1.10366	
January 24 2024	307.21100	1.14622	1.12425	1.10825	1.10359	
January 25 2024	307.19100	1.14615	1.12418	1.10818	1.10352	
January 26 2024	307.17100	1.14607	1.12411	1.10811	1.10344	
January 27 2024	307.15100	1.14600	1.12403	1.10804	1.10337	
January 28 2024	307.13100	1.14592	1.12396	1.10797	1.10330	
January 29 2024	307.11100	1.14585	1.12389	1.10789	1.10323	
January 30 2024	307.09100	1.14577	1.12381	1.10782	1.10316	
January 31 2024	307.07100	1.14570	1.12374	1.10775	1.10308	
<b>CPI-U (NSA) for:</b>			<b>September 2023 307.789</b>	<b>October 2023 307.671</b>	<b>November 2023 307.051</b>	

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**January 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 July 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	
January 1 2024	307.67100	1.08969	1.05893	1.03863	1.03288	
January 2 2024	307.65100	1.08962	1.05886	1.03856	1.03282	
January 3 2024	307.63100	1.08955	1.05879	1.03849	1.03275	
January 4 2024	307.61100	1.08948	1.05873	1.03842	1.03268	
January 5 2024	307.59100	1.08941	1.05866	1.03836	1.03261	
January 6 2024	307.57100	1.08934	1.05859	1.03829	1.03255	
January 7 2024	307.55100	1.08927	1.05852	1.03822	1.03248	
January 8 2024	307.53100	1.08920	1.05845	1.03815	1.03241	
January 9 2024	307.51100	1.08913	1.05838	1.03809	1.03235	
January 10 2024	307.49100	1.08906	1.05831	1.03802	1.03228	
January 11 2024	307.47100	1.08899	1.05824	1.03795	1.03221	
January 12 2024	307.45100	1.08891	1.05818	1.03788	1.03214	
January 13 2024	307.43100	1.08884	1.05811	1.03782	1.03208	
January 14 2024	307.41100	1.08877	1.05804	1.03775	1.03201	
January 15 2024	307.39100	1.08870	1.05797	1.03768	1.03194	
January 16 2024	307.37100	1.08863	1.05790	1.03761	1.03188	
January 17 2024	307.35100	1.08856	1.05783	1.03755	1.03181	
January 18 2024	307.33100	1.08849	1.05776	1.03748	1.03174	
January 19 2024	307.31100	1.08842	1.05769	1.03741	1.03167	
January 20 2024	307.29100	1.08835	1.05762	1.03734	1.03161	
January 21 2024	307.27100	1.08828	1.05756	1.03728	1.03154	
January 22 2024	307.25100	1.08821	1.05749	1.03721	1.03147	
January 23 2024	307.23100	1.08814	1.05742	1.03714	1.03141	
January 24 2024	307.21100	1.08806	1.05735	1.03707	1.03134	
January 25 2024	307.19100	1.08799	1.05728	1.03701	1.03127	
January 26 2024	307.17100	1.08792	1.05721	1.03694	1.03120	
January 27 2024	307.15100	1.08785	1.05714	1.03687	1.03114	
January 28 2024	307.13100	1.08778	1.05707	1.03680	1.03107	
January 29 2024	307.11100	1.08771	1.05701	1.03674	1.03100	
January 30 2024	307.09100	1.08764	1.05694	1.03667	1.03094	
January 31 2024	307.07100	1.08757	1.05687	1.03660	1.03087	
<b>CPI-U (NSA) for:</b>			<b>September 2023 307.789</b>	<b>October 2023 307.671</b>	<b>November 2023 307.051</b>	

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**January 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
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	
January 1 2024	307.67100	1.03504	1.02574	1.01305	1.00450	
January 2 2024	307.65100	1.03498	1.02568	1.01298	1.00443	
January 3 2024	307.63100	1.03491	1.02561	1.01292	1.00437	
January 4 2024	307.61100	1.03484	1.02554	1.01285	1.00430	
January 5 2024	307.59100	1.03477	1.02548	1.01279	1.00423	
January 6 2024	307.57100	1.03471	1.02541	1.01272	1.00417	
January 7 2024	307.55100	1.03464	1.02534	1.01265	1.00410	
January 8 2024	307.53100	1.03457	1.02528	1.01259	1.00404	
January 9 2024	307.51100	1.03451	1.02521	1.01252	1.00397	
January 10 2024	307.49100	1.03444	1.02514	1.01246	1.00391	
January 11 2024	307.47100	1.03437	1.02508	1.01239	1.00384	
January 12 2024	307.45100	1.03430	1.02501	1.01232	1.00378	
January 13 2024	307.43100	1.03424	1.02494	1.01226	1.00371	
January 14 2024	307.41100	1.03417	1.02488	1.01219	1.00365	
January 15 2024	307.39100	1.03410	1.02481	1.01213	1.00358	
January 16 2024	307.37100	1.03403	1.02474	1.01206	1.00352	
January 17 2024	307.35100	1.03397	1.02468	1.01199	1.00345	
January 18 2024	307.33100	1.03390	1.02461	1.01193	1.00339	
January 19 2024	307.31100	1.03383	1.02454	1.01186	1.00332	
January 20 2024	307.29100	1.03377	1.02448	1.01180	1.00326	
January 21 2024	307.27100	1.03370	1.02441	1.01173	1.00319	
January 22 2024	307.25100	1.03363	1.02434	1.01167	1.00312	
January 23 2024	307.23100	1.03356	1.02428	1.01160	1.00306	
January 24 2024	307.21100	1.03350	1.02421	1.01153	1.00299	
January 25 2024	307.19100	1.03343	1.02414	1.01147	1.00293	
January 26 2024	307.17100	1.03336	1.02408	1.01140	1.00286	
January 27 2024	307.15100	1.03329	1.02401	1.01134	1.00280	
January 28 2024	307.13100	1.03323	1.02394	1.01127	1.00273	
January 29 2024	307.11100	1.03316	1.02388	1.01120	1.00267	
January 30 2024	307.09100	1.03309	1.02381	1.01114	1.00260	
January 31 2024	307.07100	1.03303	1.02374	1.01107	1.00254	
<b>CPI-U (NSA) for:</b>			<b>September 2023 307.789</b>	<b>October 2023 307.671</b>	<b>November 2023 307.051</b>	