

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
February 2023

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		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	
February 1 2023	297.71100	1.84068	1.81097	1.67725	1.57940	
February 2 2023	297.67836	1.84047	1.81077	1.67706	1.57922	
February 3 2023	297.64571	1.84027	1.81057	1.67688	1.57905	
February 4 2023	297.61307	1.84007	1.81037	1.67669	1.57888	
February 5 2023	297.58043	1.83987	1.81017	1.67651	1.57870	
February 6 2023	297.54779	1.83967	1.80997	1.67633	1.57853	
February 7 2023	297.51514	1.83947	1.80978	1.67614	1.57836	
February 8 2023	297.48250	1.83926	1.80958	1.67596	1.57818	
February 9 2023	297.44986	1.83906	1.80938	1.67577	1.57801	
February 10 2023	297.41721	1.83886	1.80918	1.67559	1.57784	
February 11 2023	297.38457	1.83866	1.80898	1.67541	1.57766	
February 12 2023	297.35193	1.83846	1.80878	1.67522	1.57749	
February 13 2023	297.31929	1.83825	1.80858	1.67504	1.57732	
February 14 2023	297.28664	1.83805	1.80839	1.67485	1.57714	
February 15 2023	297.25400	1.83785	1.80819	1.67467	1.57697	
February 16 2023	297.22136	1.83765	1.80799	1.67449	1.57680	
February 17 2023	297.18871	1.83745	1.80779	1.67430	1.57662	
February 18 2023	297.15607	1.83725	1.80759	1.67412	1.57645	
February 19 2023	297.12343	1.83704	1.80739	1.67393	1.57628	
February 20 2023	297.09079	1.83684	1.80719	1.67375	1.57611	
February 21 2023	297.05814	1.83664	1.80700	1.67357	1.57593	
February 22 2023	297.02550	1.83644	1.80680	1.67338	1.57576	
February 23 2023	296.99286	1.83624	1.80660	1.67320	1.57559	
February 24 2023	296.96021	1.83603	1.80640	1.67302	1.57541	
February 25 2023	296.92757	1.83583	1.80620	1.67283	1.57524	
February 26 2023	296.89493	1.83563	1.80600	1.67265	1.57507	
February 27 2023	296.86229	1.83543	1.80580	1.67246	1.57489	
February 28 2023	296.82964	1.83523	1.80561	1.67228	1.57472	
CPI-U (NSA) for:			October 2022 298.012	November 2022 297.711	December 2022 296.797	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
February 2023

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	
February 1 2023	297.71100	1.49997	1.47627	1.42108	1.38664	
February 2 2023	297.67836	1.49981	1.47611	1.42092	1.38649	
February 3 2023	297.64571	1.49965	1.47594	1.42077	1.38633	
February 4 2023	297.61307	1.49948	1.47578	1.42061	1.38618	
February 5 2023	297.58043	1.49932	1.47562	1.42046	1.38603	
February 6 2023	297.54779	1.49915	1.47546	1.42030	1.38588	
February 7 2023	297.51514	1.49899	1.47530	1.42014	1.38573	
February 8 2023	297.48250	1.49882	1.47514	1.41999	1.38557	
February 9 2023	297.44986	1.49866	1.47497	1.41983	1.38542	
February 10 2023	297.41721	1.49849	1.47481	1.41968	1.38527	
February 11 2023	297.38457	1.49833	1.47465	1.41952	1.38512	
February 12 2023	297.35193	1.49817	1.47449	1.41937	1.38497	
February 13 2023	297.31929	1.49800	1.47433	1.41921	1.38481	
February 14 2023	297.28664	1.49784	1.47416	1.41905	1.38466	
February 15 2023	297.25400	1.49767	1.47400	1.41890	1.38451	
February 16 2023	297.22136	1.49751	1.47384	1.41874	1.38436	
February 17 2023	297.18871	1.49734	1.47368	1.41859	1.38421	
February 18 2023	297.15607	1.49718	1.47352	1.41843	1.38405	
February 19 2023	297.12343	1.49701	1.47336	1.41827	1.38390	
February 20 2023	297.09079	1.49685	1.47319	1.41812	1.38375	
February 21 2023	297.05814	1.49668	1.47303	1.41796	1.38360	
February 22 2023	297.02550	1.49652	1.47287	1.41781	1.38345	
February 23 2023	296.99286	1.49636	1.47271	1.41765	1.38329	
February 24 2023	296.96021	1.49619	1.47255	1.41750	1.38314	
February 25 2023	296.92757	1.49603	1.47238	1.41734	1.38299	
February 26 2023	296.89493	1.49586	1.47222	1.41718	1.38284	
February 27 2023	296.86229	1.49570	1.47206	1.41703	1.38269	
February 28 2023	296.82964	1.49553	1.47190	1.41687	1.38253	
CPI-U (NSA) for:			October 2022 298.012	November 2022 297.711	December 2022 296.797	

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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	
February 1 2023	297.71100	1.37740	1.35947	1.31753	1.29490	
February 2 2023	297.67836	1.37725	1.35932	1.31739	1.29475	
February 3 2023	297.64571	1.37710	1.35917	1.31725	1.29461	
February 4 2023	297.61307	1.37695	1.35902	1.31710	1.29447	
February 5 2023	297.58043	1.37680	1.35887	1.31696	1.29433	
February 6 2023	297.54779	1.37665	1.35872	1.31681	1.29419	
February 7 2023	297.51514	1.37650	1.35857	1.31667	1.29404	
February 8 2023	297.48250	1.37634	1.35842	1.31652	1.29390	
February 9 2023	297.44986	1.37619	1.35827	1.31638	1.29376	
February 10 2023	297.41721	1.37604	1.35813	1.31623	1.29362	
February 11 2023	297.38457	1.37589	1.35798	1.31609	1.29348	
February 12 2023	297.35193	1.37574	1.35783	1.31595	1.29333	
February 13 2023	297.31929	1.37559	1.35768	1.31580	1.29319	
February 14 2023	297.28664	1.37544	1.35753	1.31566	1.29305	
February 15 2023	297.25400	1.37529	1.35738	1.31551	1.29291	
February 16 2023	297.22136	1.37514	1.35723	1.31537	1.29277	
February 17 2023	297.18871	1.37499	1.35708	1.31522	1.29263	
February 18 2023	297.15607	1.37483	1.35693	1.31508	1.29248	
February 19 2023	297.12343	1.37468	1.35678	1.31493	1.29234	
February 20 2023	297.09079	1.37453	1.35663	1.31479	1.29220	
February 21 2023	297.05814	1.37438	1.35649	1.31465	1.29206	
February 22 2023	297.02550	1.37423	1.35634	1.31450	1.29192	
February 23 2023	296.99286	1.37408	1.35619	1.31436	1.29177	
February 24 2023	296.96021	1.37393	1.35604	1.31421	1.29163	
February 25 2023	296.92757	1.37378	1.35589	1.31407	1.29149	
February 26 2023	296.89493	1.37363	1.35574	1.31392	1.29135	
February 27 2023	296.86229	1.37348	1.35559	1.31378	1.29121	
February 28 2023	296.82964	1.37332	1.35544	1.31363	1.29106	
CPI-U (NSA) for:	October 2022	298.012	November 2022	297.711	December 2022	296.797

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Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-3/8% 10-Year TIPS Series D-2023 912828VM9 July 15, 2013 July 31, 2013 September 30, 2013 November 29, 2013	0-5/8% 10-Year TIPS Series A-2024 912828B25 January 15, 2014 January 31, 2014 March 31, 2014 May 30, 2014	1-3/8% 30-Year TIPS TIPS of February 2044 912810RF7 February 15, 2014 February 28, 2014 June 30, 2014 October 31, 2014	0-1/8% 10-Year TIPS Series D-2024 912828WU0 July 15, 2014 July 31, 2014 September 30, 2014 November 28, 2014
Maturity Date: Ref CPI on Dated Date:			July 15, 2023 232.71797	January 15, 2024 233.33058	February 15, 2044 233.05900	July 15, 2024 237.44594
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
February 1 2023	297.71100	1.27928	1.27592	1.27741	1.25381	
February 2 2023	297.67836	1.27914	1.27578	1.27727	1.25367	
February 3 2023	297.64571	1.27900	1.27564	1.27713	1.25353	
February 4 2023	297.61307	1.27886	1.27550	1.27699	1.25339	
February 5 2023	297.58043	1.27872	1.27536	1.27685	1.25326	
February 6 2023	297.54779	1.27858	1.27522	1.27671	1.25312	
February 7 2023	297.51514	1.27844	1.27508	1.27657	1.25298	
February 8 2023	297.48250	1.27830	1.27494	1.27643	1.25284	
February 9 2023	297.44986	1.27816	1.27480	1.27629	1.25271	
February 10 2023	297.41721	1.27802	1.27466	1.27615	1.25257	
February 11 2023	297.38457	1.27788	1.27452	1.27601	1.25243	
February 12 2023	297.35193	1.27774	1.27438	1.27587	1.25229	
February 13 2023	297.31929	1.27759	1.27424	1.27573	1.25216	
February 14 2023	297.28664	1.27745	1.27410	1.27559	1.25202	
February 15 2023	297.25400	1.27731	1.27396	1.27545	1.25188	
February 16 2023	297.22136	1.27717	1.27382	1.27531	1.25174	
February 17 2023	297.18871	1.27703	1.27368	1.27517	1.25161	
February 18 2023	297.15607	1.27689	1.27354	1.27503	1.25147	
February 19 2023	297.12343	1.27675	1.27340	1.27489	1.25133	
February 20 2023	297.09079	1.27661	1.27326	1.27474	1.25119	
February 21 2023	297.05814	1.27647	1.27312	1.27460	1.25106	
February 22 2023	297.02550	1.27633	1.27298	1.27446	1.25092	
February 23 2023	296.99286	1.27619	1.27284	1.27432	1.25078	
February 24 2023	296.96021	1.27605	1.27270	1.27418	1.25064	
February 25 2023	296.92757	1.27591	1.27256	1.27404	1.25051	
February 26 2023	296.89493	1.27577	1.27242	1.27390	1.25037	
February 27 2023	296.86229	1.27563	1.27228	1.27376	1.25023	
February 28 2023	296.82964	1.27549	1.27214	1.27362	1.25009	
CPI-U (NSA) for:	October 2022	298.012	November 2022	297.711	December 2022	296.797

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
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Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/4% 10-Year TIPS Series A-2025 912828H45 January 15, 2015 February 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	0-5/8% 10-Year TIPS Series A-2026 912828N71 January 15, 2016 January 29, 2016 March 31, 2016 May 31, 2016
Maturity Date: Ref CPI on Dated Date:			January 15, 2025 236.85403	February 15, 2045 235.48150	July 15, 2025 237.14365	January 15, 2026 237.61129
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
February 1 2023	297.71100	1.25694	1.26426	1.25540	1.25293	
February 2 2023	297.67836	1.25680	1.26413	1.25527	1.25280	
February 3 2023	297.64571	1.25666	1.26399	1.25513	1.25266	
February 4 2023	297.61307	1.25653	1.26385	1.25499	1.25252	
February 5 2023	297.58043	1.25639	1.26371	1.25485	1.25238	
February 6 2023	297.54779	1.25625	1.26357	1.25472	1.25225	
February 7 2023	297.51514	1.25611	1.26343	1.25458	1.25211	
February 8 2023	297.48250	1.25597	1.26329	1.25444	1.25197	
February 9 2023	297.44986	1.25584	1.26316	1.25430	1.25183	
February 10 2023	297.41721	1.25570	1.26302	1.25416	1.25170	
February 11 2023	297.38457	1.25556	1.26288	1.25403	1.25156	
February 12 2023	297.35193	1.25542	1.26274	1.25389	1.25142	
February 13 2023	297.31929	1.25528	1.26260	1.25375	1.25128	
February 14 2023	297.28664	1.25515	1.26246	1.25361	1.25115	
February 15 2023	297.25400	1.25501	1.26232	1.25348	1.25101	
February 16 2023	297.22136	1.25487	1.26219	1.25334	1.25087	
February 17 2023	297.18871	1.25473	1.26205	1.25320	1.25073	
February 18 2023	297.15607	1.25460	1.26191	1.25306	1.25060	
February 19 2023	297.12343	1.25446	1.26177	1.25293	1.25046	
February 20 2023	297.09079	1.25432	1.26163	1.25279	1.25032	
February 21 2023	297.05814	1.25418	1.26149	1.25265	1.25019	
February 22 2023	297.02550	1.25404	1.26135	1.25251	1.25005	
February 23 2023	296.99286	1.25391	1.26122	1.25238	1.24991	
February 24 2023	296.96021	1.25377	1.26108	1.25224	1.24977	
February 25 2023	296.92757	1.25363	1.26094	1.25210	1.24964	
February 26 2023	296.89493	1.25349	1.26080	1.25196	1.24950	
February 27 2023	296.86229	1.25336	1.26066	1.25182	1.24936	
February 28 2023	296.82964	1.25322	1.26052	1.25169	1.24922	
CPI-U (NSA) for:	October 2022	298.012	November 2022	297.711	December 2022	296.797

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
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Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-7/8% 30-Year TIPS TIPS of February 2047 912810RW0 February 15, 2017 February 28, 2017 June 30, 2017 October 31, 2017
Maturity Date: Ref CPI on Dated Date:			February 15, 2046 236.94448	July 15, 2026 239.70132	January 15, 2027 241.55919	February 15, 2047 241.39250
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
February 1 2023	297.71100	1.25646	1.24201	1.23246	1.23331	
February 2 2023	297.67836	1.25632	1.24187	1.23232	1.23317	
February 3 2023	297.64571	1.25618	1.24174	1.23219	1.23304	
February 4 2023	297.61307	1.25605	1.24160	1.23205	1.23290	
February 5 2023	297.58043	1.25591	1.24146	1.23192	1.23277	
February 6 2023	297.54779	1.25577	1.24133	1.23178	1.23263	
February 7 2023	297.51514	1.25563	1.24119	1.23164	1.23250	
February 8 2023	297.48250	1.25549	1.24105	1.23151	1.23236	
February 9 2023	297.44986	1.25536	1.24092	1.23137	1.23222	
February 10 2023	297.41721	1.25522	1.24078	1.23124	1.23209	
February 11 2023	297.38457	1.25508	1.24065	1.23110	1.23195	
February 12 2023	297.35193	1.25494	1.24051	1.23097	1.23182	
February 13 2023	297.31929	1.25481	1.24037	1.23083	1.23168	
February 14 2023	297.28664	1.25467	1.24024	1.23070	1.23155	
February 15 2023	297.25400	1.25453	1.24010	1.23056	1.23141	
February 16 2023	297.22136	1.25439	1.23997	1.23043	1.23128	
February 17 2023	297.18871	1.25425	1.23983	1.23029	1.23114	
February 18 2023	297.15607	1.25412	1.23969	1.23016	1.23101	
February 19 2023	297.12343	1.25398	1.23956	1.23002	1.23087	
February 20 2023	297.09079	1.25384	1.23942	1.22989	1.23074	
February 21 2023	297.05814	1.25370	1.23928	1.22975	1.23060	
February 22 2023	297.02550	1.25357	1.23915	1.22962	1.23047	
February 23 2023	296.99286	1.25343	1.23901	1.22948	1.23033	
February 24 2023	296.96021	1.25329	1.23888	1.22935	1.23020	
February 25 2023	296.92757	1.25315	1.23874	1.22921	1.23006	
February 26 2023	296.89493	1.25301	1.23860	1.22908	1.22993	
February 27 2023	296.86229	1.25288	1.23847	1.22894	1.22979	
February 28 2023	296.82964	1.25274	1.23833	1.22881	1.22966	
CPI-U (NSA) for:	October 2022	298.012	November 2022	297.711	December 2022	296.797

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February 2023

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-5/8% 5-Year TIPS Series X-2023 9128284H0 April 15, 2018 April 30, 2018 August 31, 2018 December 31, 2018
Maturity Date: Ref CPI on Dated Date:			July 15, 2027 244.61839	January 15, 2028 246.66571	February 15, 2048 246.59650	April 15, 2023 248.39153
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
February 1 2023	297.71100	1.21704	1.20694	1.20728	1.19856	
February 2 2023	297.67836	1.21691	1.20681	1.20715	1.19842	
February 3 2023	297.64571	1.21678	1.20668	1.20702	1.19829	
February 4 2023	297.61307	1.21664	1.20654	1.20688	1.19816	
February 5 2023	297.58043	1.21651	1.20641	1.20675	1.19803	
February 6 2023	297.54779	1.21638	1.20628	1.20662	1.19790	
February 7 2023	297.51514	1.21624	1.20615	1.20649	1.19777	
February 8 2023	297.48250	1.21611	1.20601	1.20635	1.19764	
February 9 2023	297.44986	1.21598	1.20588	1.20622	1.19750	
February 10 2023	297.41721	1.21584	1.20575	1.20609	1.19737	
February 11 2023	297.38457	1.21571	1.20562	1.20596	1.19724	
February 12 2023	297.35193	1.21557	1.20549	1.20582	1.19711	
February 13 2023	297.31929	1.21544	1.20535	1.20569	1.19698	
February 14 2023	297.28664	1.21531	1.20522	1.20556	1.19685	
February 15 2023	297.25400	1.21517	1.20509	1.20543	1.19672	
February 16 2023	297.22136	1.21504	1.20496	1.20529	1.19658	
February 17 2023	297.18871	1.21491	1.20482	1.20516	1.19645	
February 18 2023	297.15607	1.21477	1.20469	1.20503	1.19632	
February 19 2023	297.12343	1.21464	1.20456	1.20490	1.19619	
February 20 2023	297.09079	1.21451	1.20443	1.20476	1.19606	
February 21 2023	297.05814	1.21437	1.20429	1.20463	1.19593	
February 22 2023	297.02550	1.21424	1.20416	1.20450	1.19580	
February 23 2023	296.99286	1.21411	1.20403	1.20437	1.19566	
February 24 2023	296.96021	1.21397	1.20390	1.20424	1.19553	
February 25 2023	296.92757	1.21384	1.20377	1.20410	1.19540	
February 26 2023	296.89493	1.21371	1.20363	1.20397	1.19527	
February 27 2023	296.86229	1.21357	1.20350	1.20384	1.19514	
February 28 2023	296.82964	1.21344	1.20337	1.20371	1.19501	
CPI-U (NSA) for:	October 2022	298.012	November 2022	297.711	December 2022	296.797

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
February 2023

Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
February	1	2023	297.71100	1.18602	1.17904	1.18310	1.18042	
February	2	2023	297.67836	1.18589	1.17891	1.18297	1.18029	
February	3	2023	297.64571	1.18576	1.17878	1.18284	1.18016	
February	4	2023	297.61307	1.18563	1.17865	1.18271	1.18003	
February	5	2023	297.58043	1.18550	1.17852	1.18259	1.17990	
February	6	2023	297.54779	1.18537	1.17840	1.18246	1.17977	
February	7	2023	297.51514	1.18524	1.17827	1.18233	1.17964	
February	8	2023	297.48250	1.18511	1.17814	1.18220	1.17951	
February	9	2023	297.44986	1.18498	1.17801	1.18207	1.17938	
February	10	2023	297.41721	1.18485	1.17788	1.18194	1.17925	
February	11	2023	297.38457	1.18472	1.17775	1.18181	1.17912	
February	12	2023	297.35193	1.18459	1.17762	1.18168	1.17899	
February	13	2023	297.31929	1.18446	1.17749	1.18155	1.17886	
February	14	2023	297.28664	1.18433	1.17736	1.18142	1.17873	
February	15	2023	297.25400	1.18420	1.17723	1.18129	1.17860	
February	16	2023	297.22136	1.18407	1.17710	1.18116	1.17847	
February	17	2023	297.18871	1.18394	1.17697	1.18103	1.17835	
February	18	2023	297.15607	1.18381	1.17684	1.18090	1.17822	
February	19	2023	297.12343	1.18368	1.17671	1.18077	1.17809	
February	20	2023	297.09079	1.18355	1.17659	1.18064	1.17796	
February	21	2023	297.05814	1.18342	1.17646	1.18051	1.17783	
February	22	2023	297.02550	1.18329	1.17633	1.18038	1.17770	
February	23	2023	296.99286	1.18316	1.17620	1.18025	1.17757	
February	24	2023	296.96021	1.18303	1.17607	1.18012	1.17744	
February	25	2023	296.92757	1.18290	1.17594	1.17999	1.17731	
February	26	2023	296.89493	1.18277	1.17581	1.17986	1.17718	
February	27	2023	296.86229	1.18264	1.17568	1.17973	1.17705	
February	28	2023	296.82964	1.18251	1.17555	1.17960	1.17692	
CPI-U (NSA) for:			October 2022	298.012	November 2022	297.711	December 2022	296.797

Security:	0-3/4% 10-Year TIPS	0-7/8% 10-Year TIPS	1% 30-Year TIPS	0-1/2% 5-Year TIPS
Description:	Series D-2028	Series A-2029	TIPS of February 2049	Series X-2024
CUSIP Number:	912828Y38	9128285W6	912810SG4	9128286N5
Dated Date:	July 15, 2018	January 15, 2019	February 15, 2019	April 15, 2019
Original Issue Date:	July 31, 2018	January 31, 2019	February 28, 2019	April 30, 2019
Additional Issue Date(s):	September 28, 2018 November 30, 2018	March 29, 2019 May 31, 2019	August 30, 2019	June 28, 2019
Maturity Date:	July 15, 2028	January 15, 2029	February 15, 2049	April 15, 2024
Ref CPI on Dated Date:	251.01658	252.50248	251.63550	252.20853

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
February 2023

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/4% 10-Year TIPS Series D-2029 9128287D6 July 15, 2019 January 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	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
Maturity Date: Ref CPI on Dated Date:			July 15, 2029 255.79368	October 15, 2024 256.56513	January 15, 2030 257.28368	February 15, 2050 257.09503
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
February 1 2023	297.71100	1.16387	1.16037	1.15713	1.15798	
February 2 2023	297.67836	1.16374	1.16024	1.15700	1.15785	
February 3 2023	297.64571	1.16362	1.16012	1.15688	1.15773	
February 4 2023	297.61307	1.16349	1.15999	1.15675	1.15760	
February 5 2023	297.58043	1.16336	1.15986	1.15662	1.15747	
February 6 2023	297.54779	1.16323	1.15974	1.15650	1.15735	
February 7 2023	297.51514	1.16311	1.15961	1.15637	1.15722	
February 8 2023	297.48250	1.16298	1.15948	1.15624	1.15709	
February 9 2023	297.44986	1.16285	1.15935	1.15612	1.15696	
February 10 2023	297.41721	1.16272	1.15923	1.15599	1.15684	
February 11 2023	297.38457	1.16260	1.15910	1.15586	1.15671	
February 12 2023	297.35193	1.16247	1.15897	1.15574	1.15658	
February 13 2023	297.31929	1.16234	1.15885	1.15561	1.15646	
February 14 2023	297.28664	1.16221	1.15872	1.15548	1.15633	
February 15 2023	297.25400	1.16209	1.15859	1.15536	1.15620	
February 16 2023	297.22136	1.16196	1.15846	1.15523	1.15608	
February 17 2023	297.18871	1.16183	1.15834	1.15510	1.15595	
February 18 2023	297.15607	1.16170	1.15821	1.15497	1.15582	
February 19 2023	297.12343	1.16157	1.15808	1.15485	1.15569	
February 20 2023	297.09079	1.16145	1.15795	1.15472	1.15557	
February 21 2023	297.05814	1.16132	1.15783	1.15459	1.15544	
February 22 2023	297.02550	1.16119	1.15770	1.15447	1.15531	
February 23 2023	296.99286	1.16106	1.15757	1.15434	1.15519	
February 24 2023	296.96021	1.16094	1.15745	1.15421	1.15506	
February 25 2023	296.92757	1.16081	1.15732	1.15409	1.15493	
February 26 2023	296.89493	1.16068	1.15719	1.15396	1.15481	
February 27 2023	296.86229	1.16055	1.15706	1.15383	1.15468	
February 28 2023	296.82964	1.16043	1.15694	1.15371	1.15455	
CPI-U (NSA) for:	October 2022	298.012	November 2022	297.711	December 2022	296.797

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
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Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	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
Maturity Date: Ref CPI on Dated Date:			April 15, 2025 258.30093	July 15, 2030 256.39126	October 15, 2025 259.46997	January 15, 2031 260.31619
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
February 1 2023	297.71100	1.15257	1.16116	1.14738	1.14365	
February 2 2023	297.67836	1.15245	1.16103	1.14726	1.14353	
February 3 2023	297.64571	1.15232	1.16090	1.14713	1.14340	
February 4 2023	297.61307	1.15220	1.16078	1.14700	1.14328	
February 5 2023	297.58043	1.15207	1.16065	1.14688	1.14315	
February 6 2023	297.54779	1.15194	1.16052	1.14675	1.14302	
February 7 2023	297.51514	1.15182	1.16040	1.14663	1.14290	
February 8 2023	297.48250	1.15169	1.16027	1.14650	1.14277	
February 9 2023	297.44986	1.15156	1.16014	1.14637	1.14265	
February 10 2023	297.41721	1.15144	1.16001	1.14625	1.14252	
February 11 2023	297.38457	1.15131	1.15989	1.14612	1.14240	
February 12 2023	297.35193	1.15118	1.15976	1.14600	1.14227	
February 13 2023	297.31929	1.15106	1.15963	1.14587	1.14215	
February 14 2023	297.28664	1.15093	1.15950	1.14575	1.14202	
February 15 2023	297.25400	1.15080	1.15938	1.14562	1.14190	
February 16 2023	297.22136	1.15068	1.15925	1.14549	1.14177	
February 17 2023	297.18871	1.15055	1.15912	1.14537	1.14165	
February 18 2023	297.15607	1.15043	1.15899	1.14524	1.14152	
February 19 2023	297.12343	1.15030	1.15887	1.14512	1.14139	
February 20 2023	297.09079	1.15017	1.15874	1.14499	1.14127	
February 21 2023	297.05814	1.15005	1.15861	1.14487	1.14114	
February 22 2023	297.02550	1.14992	1.15849	1.14474	1.14102	
February 23 2023	296.99286	1.14979	1.15836	1.14461	1.14089	
February 24 2023	296.96021	1.14967	1.15823	1.14449	1.14077	
February 25 2023	296.92757	1.14954	1.15810	1.14436	1.14064	
February 26 2023	296.89493	1.14941	1.15798	1.14424	1.14052	
February 27 2023	296.86229	1.14929	1.15785	1.14411	1.14039	
February 28 2023	296.82964	1.14916	1.15772	1.14398	1.14027	
CPI-U (NSA) for:	October 2022	298.012	November 2022	297.711	December 2022	296.797

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
February 2023

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	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
Maturity Date: Ref CPI on Dated Date:			February 15, 2051 260.35150	April 15, 2026 262.25027	July 15, 2031 268.02090	October 15, 2026 273.25771
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
February 1 2023	297.71100	1.14350	1.13522	1.11078	1.08949	
February 2 2023	297.67836	1.14337	1.13509	1.11065	1.08937	
February 3 2023	297.64571	1.14325	1.13497	1.11053	1.08925	
February 4 2023	297.61307	1.14312	1.13484	1.11041	1.08913	
February 5 2023	297.58043	1.14299	1.13472	1.11029	1.08901	
February 6 2023	297.54779	1.14287	1.13459	1.11017	1.08889	
February 7 2023	297.51514	1.14274	1.13447	1.11004	1.08877	
February 8 2023	297.48250	1.14262	1.13435	1.10992	1.08865	
February 9 2023	297.44986	1.14249	1.13422	1.10980	1.08853	
February 10 2023	297.41721	1.14237	1.13410	1.10968	1.08841	
February 11 2023	297.38457	1.14224	1.13397	1.10956	1.08829	
February 12 2023	297.35193	1.14212	1.13385	1.10944	1.08817	
February 13 2023	297.31929	1.14199	1.13372	1.10931	1.08805	
February 14 2023	297.28664	1.14187	1.13360	1.10919	1.08794	
February 15 2023	297.25400	1.14174	1.13347	1.10907	1.08782	
February 16 2023	297.22136	1.14162	1.13335	1.10895	1.08770	
February 17 2023	297.18871	1.14149	1.13323	1.10883	1.08758	
February 18 2023	297.15607	1.14136	1.13310	1.10870	1.08746	
February 19 2023	297.12343	1.14124	1.13298	1.10858	1.08734	
February 20 2023	297.09079	1.14111	1.13285	1.10846	1.08722	
February 21 2023	297.05814	1.14099	1.13273	1.10834	1.08710	
February 22 2023	297.02550	1.14086	1.13260	1.10822	1.08698	
February 23 2023	296.99286	1.14074	1.13248	1.10810	1.08686	
February 24 2023	296.96021	1.14061	1.13235	1.10797	1.08674	
February 25 2023	296.92757	1.14049	1.13223	1.10785	1.08662	
February 26 2023	296.89493	1.14036	1.13211	1.10773	1.08650	
February 27 2023	296.86229	1.14024	1.13198	1.10761	1.08638	
February 28 2023	296.82964	1.14011	1.13186	1.10749	1.08626	
CPI-U (NSA) for:	October 2022	298.012	November 2022	297.711	December 2022	296.797

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
February 2023

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	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
Maturity Date: Ref CPI on Dated Date:			January 15, 2032 277.20274	February 15, 2052 278.37500	April 15, 2027 282.34640	July 15, 2032 290.54829
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
February 1 2023	297.71100	1.07398	1.06946	1.05442	1.02465	
February 2 2023	297.67836	1.07387	1.06934	1.05430	1.02454	
February 3 2023	297.64571	1.07375	1.06923	1.05419	1.02443	
February 4 2023	297.61307	1.07363	1.06911	1.05407	1.02432	
February 5 2023	297.58043	1.07351	1.06899	1.05396	1.02420	
February 6 2023	297.54779	1.07339	1.06887	1.05384	1.02409	
February 7 2023	297.51514	1.07328	1.06876	1.05372	1.02398	
February 8 2023	297.48250	1.07316	1.06864	1.05361	1.02387	
February 9 2023	297.44986	1.07304	1.06852	1.05349	1.02375	
February 10 2023	297.41721	1.07292	1.06840	1.05338	1.02364	
February 11 2023	297.38457	1.07281	1.06829	1.05326	1.02353	
February 12 2023	297.35193	1.07269	1.06817	1.05315	1.02342	
February 13 2023	297.31929	1.07257	1.06805	1.05303	1.02330	
February 14 2023	297.28664	1.07245	1.06794	1.05291	1.02319	
February 15 2023	297.25400	1.07233	1.06782	1.05280	1.02308	
February 16 2023	297.22136	1.07222	1.06770	1.05268	1.02297	
February 17 2023	297.18871	1.07210	1.06758	1.05257	1.02285	
February 18 2023	297.15607	1.07198	1.06747	1.05245	1.02274	
February 19 2023	297.12343	1.07186	1.06735	1.05234	1.02263	
February 20 2023	297.09079	1.07175	1.06723	1.05222	1.02252	
February 21 2023	297.05814	1.07163	1.06712	1.05211	1.02241	
February 22 2023	297.02550	1.07151	1.06700	1.05199	1.02229	
February 23 2023	296.99286	1.07139	1.06688	1.05187	1.02218	
February 24 2023	296.96021	1.07127	1.06676	1.05176	1.02207	
February 25 2023	296.92757	1.07116	1.06665	1.05164	1.02196	
February 26 2023	296.89493	1.07104	1.06653	1.05153	1.02184	
February 27 2023	296.86229	1.07092	1.06641	1.05141	1.02173	
February 28 2023	296.82964	1.07080	1.06629	1.05130	1.02162	
CPI-U (NSA) for:	October 2022	298.012	November 2022	297.711	December 2022	296.797

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
February 2023

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-2027 91282CFR7 October 15, 2022 October 31, 2022 December 30, 2022 October 15, 2027 296.22858					
Date			Ref CPI		Index Ratio			
February	1	2023	297.71100		1.00500			
February	2	2023	297.67836		1.00489			
February	3	2023	297.64571		1.00478			
February	4	2023	297.61307		1.00467			
February	5	2023	297.58043		1.00456			
February	6	2023	297.54779		1.00445			
February	7	2023	297.51514		1.00434			
February	8	2023	297.48250		1.00423			
February	9	2023	297.44986		1.00412			
February	10	2023	297.41721		1.00401			
February	11	2023	297.38457		1.00390			
February	12	2023	297.35193		1.00379			
February	13	2023	297.31929		1.00368			
February	14	2023	297.28664		1.00357			
February	15	2023	297.25400		1.00346			
February	16	2023	297.22136		1.00335			
February	17	2023	297.18871		1.00324			
February	18	2023	297.15607		1.00313			
February	19	2023	297.12343		1.00302			
February	20	2023	297.09079		1.00291			
February	21	2023	297.05814		1.00280			
February	22	2023	297.02550		1.00269			
February	23	2023	296.99286		1.00258			
February	24	2023	296.96021		1.00247			
February	25	2023	296.92757		1.00236			
February	26	2023	296.89493		1.00225			
February	27	2023	296.86229		1.00214			
February	28	2023	296.82964		1.00203			
CPI-U (NSA) for:			October 2022	298.012	November 2022	297.711	December 2022	296.797