

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
January 2021

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	
January 1 2021	260.38800	1.60992	1.58393	1.46697	1.38139	
January 2 2021	260.38287	1.60989	1.58390	1.46695	1.38137	
January 3 2021	260.37774	1.60985	1.58387	1.46692	1.38134	
January 4 2021	260.37261	1.60982	1.58384	1.46689	1.38131	
January 5 2021	260.36748	1.60979	1.58381	1.46686	1.38128	
January 6 2021	260.36235	1.60976	1.58378	1.46683	1.38126	
January 7 2021	260.35723	1.60973	1.58375	1.46680	1.38123	
January 8 2021	260.35210	1.60970	1.58371	1.46677	1.38120	
January 9 2021	260.34697	1.60966	1.58368	1.46674	1.38117	
January 10 2021	260.34184	1.60963	1.58365	1.46671	1.38115	
January 11 2021	260.33671	1.60960	1.58362	1.46669	1.38112	
January 12 2021	260.33158	1.60957	1.58359	1.46666	1.38109	
January 13 2021	260.32645	1.60954	1.58356	1.46663	1.38107	
January 14 2021	260.32132	1.60950	1.58353	1.46660	1.38104	
January 15 2021	260.31619	1.60947	1.58350	1.46657	1.38101	
January 16 2021	260.31106	1.60944	1.58346	1.46654	1.38098	
January 17 2021	260.30594	1.60941	1.58343	1.46651	1.38096	
January 18 2021	260.30081	1.60938	1.58340	1.46648	1.38093	
January 19 2021	260.29568	1.60935	1.58337	1.46645	1.38090	
January 20 2021	260.29055	1.60931	1.58334	1.46643	1.38088	
January 21 2021	260.28542	1.60928	1.58331	1.46640	1.38085	
January 22 2021	260.28029	1.60925	1.58328	1.46637	1.38082	
January 23 2021	260.27516	1.60922	1.58325	1.46634	1.38079	
January 24 2021	260.27003	1.60919	1.58322	1.46631	1.38077	
January 25 2021	260.26490	1.60916	1.58318	1.46628	1.38074	
January 26 2021	260.25977	1.60912	1.58315	1.46625	1.38071	
January 27 2021	260.25465	1.60909	1.58312	1.46622	1.38068	
January 28 2021	260.24952	1.60906	1.58309	1.46619	1.38066	
January 29 2021	260.24439	1.60903	1.58306	1.46617	1.38063	
January 30 2021	260.23926	1.60900	1.58303	1.46614	1.38060	
January 31 2021	260.23413	1.60897	1.58300	1.46611	1.38058	
CPI-U (NSA) for:			September 2020 260.28	October 2020 260.388	November 2020 260.229	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
January 2021

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 2021	260.38800	1.31193	1.29119	1.24292	1.21280	
January 2 2021	260.38287	1.31190	1.29117	1.24290	1.21278	
January 3 2021	260.37774	1.31188	1.29114	1.24287	1.21275	
January 4 2021	260.37261	1.31185	1.29112	1.24285	1.21273	
January 5 2021	260.36748	1.31182	1.29109	1.24283	1.21271	
January 6 2021	260.36235	1.31180	1.29107	1.24280	1.21268	
January 7 2021	260.35723	1.31177	1.29104	1.24278	1.21266	
January 8 2021	260.35210	1.31175	1.29102	1.24275	1.21263	
January 9 2021	260.34697	1.31172	1.29099	1.24273	1.21261	
January 10 2021	260.34184	1.31170	1.29097	1.24270	1.21259	
January 11 2021	260.33671	1.31167	1.29094	1.24268	1.21256	
January 12 2021	260.33158	1.31164	1.29091	1.24265	1.21254	
January 13 2021	260.32645	1.31162	1.29089	1.24263	1.21251	
January 14 2021	260.32132	1.31159	1.29086	1.24260	1.21249	
January 15 2021	260.31619	1.31157	1.29084	1.24258	1.21247	
January 16 2021	260.31106	1.31154	1.29081	1.24256	1.21244	
January 17 2021	260.30594	1.31151	1.29079	1.24253	1.21242	
January 18 2021	260.30081	1.31149	1.29076	1.24251	1.21239	
January 19 2021	260.29568	1.31146	1.29074	1.24248	1.21237	
January 20 2021	260.29055	1.31144	1.29071	1.24246	1.21235	
January 21 2021	260.28542	1.31141	1.29069	1.24243	1.21232	
January 22 2021	260.28029	1.31138	1.29066	1.24241	1.21230	
January 23 2021	260.27516	1.31136	1.29063	1.24238	1.21228	
January 24 2021	260.27003	1.31133	1.29061	1.24236	1.21225	
January 25 2021	260.26490	1.31131	1.29058	1.24234	1.21223	
January 26 2021	260.25977	1.31128	1.29056	1.24231	1.21220	
January 27 2021	260.25465	1.31126	1.29053	1.24229	1.21218	
January 28 2021	260.24952	1.31123	1.29051	1.24226	1.21216	
January 29 2021	260.24439	1.31120	1.29048	1.24224	1.21213	
January 30 2021	260.23926	1.31118	1.29046	1.24221	1.21211	
January 31 2021	260.23413	1.31115	1.29043	1.24219	1.21208	
CPI-U (NSA) for:	September 2020	260.28	October 2020	260.388	November 2020	260.229

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):			2-1/8% 30-Year TIPS TIPS of February 2040 912810QF8 February 15, 2010 February 26, 2010 August 31, 2010	1-1/8% 10-Year TIPS Series A-2021 912828PP9 January 15, 2011 January 31, 2011 March 31, 2011 May 31, 2011	2-1/8% 30-Year TIPS TIPS of February 2041 912810QP6 February 15, 2011 February 28, 2011 June 30, 2011 October 31, 2011	0-5/8% 10-Year TIPS Series D-2021 912828QV5 July 15, 2011 July 29, 2011 September 30, 2011 November 30, 2011
Maturity Date: Ref CPI on Dated Date:			February 15, 2040 216.13950	January 15, 2021 218.75255	February 15, 2041 218.99100	July 15, 2021 225.38381
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January 1 2021	260.38800	1.20472	1.19033	1.18904	1.15531	
January 2 2021	260.38287	1.20470	1.19031	1.18901	1.15529	
January 3 2021	260.37774	1.20467	1.19028	1.18899	1.15526	
January 4 2021	260.37261	1.20465	1.19026	1.18896	1.15524	
January 5 2021	260.36748	1.20463	1.19024	1.18894	1.15522	
January 6 2021	260.36235	1.20460	1.19021	1.18892	1.15520	
January 7 2021	260.35723	1.20458	1.19019	1.18889	1.15517	
January 8 2021	260.35210	1.20456	1.19017	1.18887	1.15515	
January 9 2021	260.34697	1.20453	1.19014	1.18885	1.15513	
January 10 2021	260.34184	1.20451	1.19012	1.18882	1.15510	
January 11 2021	260.33671	1.20448	1.19010	1.18880	1.15508	
January 12 2021	260.33158	1.20446	1.19007	1.18878	1.15506	
January 13 2021	260.32645	1.20444	1.19005	1.18875	1.15504	
January 14 2021	260.32132	1.20441	1.19003	1.18873	1.15501	
January 15 2021	260.31619	1.20439	1.19000	1.18871	1.15499	
January 16 2021	260.31106	1.20437		1.18868	1.15497	
January 17 2021	260.30594	1.20434		1.18866	1.15495	
January 18 2021	260.30081	1.20432		1.18864	1.15492	
January 19 2021	260.29568	1.20429		1.18861	1.15490	
January 20 2021	260.29055	1.20427		1.18859	1.15488	
January 21 2021	260.28542	1.20425		1.18857	1.15485	
January 22 2021	260.28029	1.20422		1.18854	1.15483	
January 23 2021	260.27516	1.20420		1.18852	1.15481	
January 24 2021	260.27003	1.20418		1.18850	1.15479	
January 25 2021	260.26490	1.20415		1.18847	1.15476	
January 26 2021	260.25977	1.20413		1.18845	1.15474	
January 27 2021	260.25465	1.20410		1.18843	1.15472	
January 28 2021	260.24952	1.20408		1.18840	1.15469	
January 29 2021	260.24439	1.20406		1.18838	1.15467	
January 30 2021	260.23926	1.20403		1.18836	1.15465	
January 31 2021	260.23413	1.20401		1.18833	1.15463	
CPI-U (NSA) for:	September 2020	260.28	October 2020	260.388	November 2020	260.229

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
January 2021

Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January	1	2021	260.38800	1.15046	1.15236	1.13230	1.12809	
January	2	2021	260.38287	1.15043	1.15234	1.13228	1.12807	
January	3	2021	260.37774	1.15041	1.15231	1.13226	1.12805	
January	4	2021	260.37261	1.15039	1.15229	1.13224	1.12802	
January	5	2021	260.36748	1.15036	1.15227	1.13221	1.12800	
January	6	2021	260.36235	1.15034	1.15225	1.13219	1.12798	
January	7	2021	260.35723	1.15032	1.15222	1.13217	1.12796	
January	8	2021	260.35210	1.15030	1.15220	1.13215	1.12793	
January	9	2021	260.34697	1.15027	1.15218	1.13213	1.12791	
January	10	2021	260.34184	1.15025	1.15216	1.13210	1.12789	
January	11	2021	260.33671	1.15023	1.15213	1.13208	1.12787	
January	12	2021	260.33158	1.15021	1.15211	1.13206	1.12785	
January	13	2021	260.32645	1.15018	1.15209	1.13204	1.12782	
January	14	2021	260.32132	1.15016	1.15206	1.13201	1.12780	
January	15	2021	260.31619	1.15014	1.15204	1.13199	1.12778	
January	16	2021	260.31106	1.15012	1.15202	1.13197	1.12776	
January	17	2021	260.30594	1.15009	1.15200	1.13195	1.12773	
January	18	2021	260.30081	1.15007	1.15197	1.13192	1.12771	
January	19	2021	260.29568	1.15005	1.15195	1.13190	1.12769	
January	20	2021	260.29055	1.15002	1.15193	1.13188	1.12767	
January	21	2021	260.28542	1.15000	1.15191	1.13186	1.12765	
January	22	2021	260.28029	1.14998	1.15188	1.13184	1.12762	
January	23	2021	260.27516	1.14996	1.15186	1.13181	1.12760	
January	24	2021	260.27003	1.14993	1.15184	1.13179	1.12758	
January	25	2021	260.26490	1.14991	1.15182	1.13177	1.12756	
January	26	2021	260.25977	1.14989	1.15179	1.13175	1.12753	
January	27	2021	260.25465	1.14987	1.15177	1.13172	1.12751	
January	28	2021	260.24952	1.14984	1.15175	1.13170	1.12749	
January	29	2021	260.24439	1.14982	1.15172	1.13168	1.12747	
January	30	2021	260.23926	1.14980	1.15170	1.13166	1.12745	
January	31	2021	260.23413	1.14978	1.15168	1.13163	1.12742	
CPI-U (NSA) for:			September 2020	260.28	October 2020	260.388	November 2020	260.229

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
January 2021

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-5/8% 30-Year TIPS TIPS of February 2043 912810RA8 February 15, 2013 February 28, 2013 June 28, 2013 October 31, 2013	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
Maturity Date: Ref CPI on Dated Date:			February 15, 2043 229.91100	July 15, 2023 232.71797	January 15, 2024 233.33058	February 15, 2044 233.05900
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January 1 2021	260.38800	1.13256	1.11890	1.11596	1.11726	
January 2 2021	260.38287	1.13254	1.11888	1.11594	1.11724	
January 3 2021	260.37774	1.13252	1.11886	1.11592	1.11722	
January 4 2021	260.37261	1.13249	1.11883	1.11590	1.11720	
January 5 2021	260.36748	1.13247	1.11881	1.11587	1.11717	
January 6 2021	260.36235	1.13245	1.11879	1.11585	1.11715	
January 7 2021	260.35723	1.13243	1.11877	1.11583	1.11713	
January 8 2021	260.35210	1.13240	1.11875	1.11581	1.11711	
January 9 2021	260.34697	1.13238	1.11872	1.11579	1.11709	
January 10 2021	260.34184	1.13236	1.11870	1.11576	1.11706	
January 11 2021	260.33671	1.13234	1.11868	1.11574	1.11704	
January 12 2021	260.33158	1.13231	1.11866	1.11572	1.11702	
January 13 2021	260.32645	1.13229	1.11863	1.11570	1.11700	
January 14 2021	260.32132	1.13227	1.11861	1.11568	1.11698	
January 15 2021	260.31619	1.13225	1.11859	1.11565	1.11695	
January 16 2021	260.31106	1.13223	1.11857	1.11563	1.11693	
January 17 2021	260.30594	1.13220	1.11855	1.11561	1.11691	
January 18 2021	260.30081	1.13218	1.11852	1.11559	1.11689	
January 19 2021	260.29568	1.13216	1.11850	1.11557	1.11687	
January 20 2021	260.29055	1.13214	1.11848	1.11554	1.11684	
January 21 2021	260.28542	1.13211	1.11846	1.11552	1.11682	
January 22 2021	260.28029	1.13209	1.11844	1.11550	1.11680	
January 23 2021	260.27516	1.13207	1.11841	1.11548	1.11678	
January 24 2021	260.27003	1.13205	1.11839	1.11546	1.11676	
January 25 2021	260.26490	1.13202	1.11837	1.11543	1.11673	
January 26 2021	260.25977	1.13200	1.11835	1.11541	1.11671	
January 27 2021	260.25465	1.13198	1.11833	1.11539	1.11669	
January 28 2021	260.24952	1.13196	1.11830	1.11537	1.11667	
January 29 2021	260.24439	1.13194	1.11828	1.11535	1.11665	
January 30 2021	260.23926	1.13191	1.11826	1.11532	1.11662	
January 31 2021	260.23413	1.13189	1.11824	1.11530	1.11660	
CPI-U (NSA) for:	September 2020	260.28	October 2020	260.388	November 2020	260.229

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
January 2021

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/8% 10-Year TIPS Series D-2024 912828WU0 July 15, 2014 July 31, 2014 September 30, 2014 November 28, 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:			July 15, 2024 237.44594	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	
January 1 2021	260.38800	1.09662	1.09936	1.10577	1.09802	
January 2 2021	260.38287	1.09660	1.09934	1.10575	1.09800	
January 3 2021	260.37774	1.09658	1.09932	1.10572	1.09797	
January 4 2021	260.37261	1.09656	1.09930	1.10570	1.09795	
January 5 2021	260.36748	1.09653	1.09927	1.10568	1.09793	
January 6 2021	260.36235	1.09651	1.09925	1.10566	1.09791	
January 7 2021	260.35723	1.09649	1.09923	1.10564	1.09789	
January 8 2021	260.35210	1.09647	1.09921	1.10562	1.09787	
January 9 2021	260.34697	1.09645	1.09919	1.10559	1.09784	
January 10 2021	260.34184	1.09643	1.09917	1.10557	1.09782	
January 11 2021	260.33671	1.09640	1.09914	1.10555	1.09780	
January 12 2021	260.33158	1.09638	1.09912	1.10553	1.09778	
January 13 2021	260.32645	1.09636	1.09910	1.10551	1.09776	
January 14 2021	260.32132	1.09634	1.09908	1.10549	1.09774	
January 15 2021	260.31619	1.09632	1.09906	1.10546	1.09772	
January 16 2021	260.31106	1.09630	1.09904	1.10544	1.09769	
January 17 2021	260.30594	1.09627	1.09901	1.10542	1.09767	
January 18 2021	260.30081	1.09625	1.09899	1.10540	1.09765	
January 19 2021	260.29568	1.09623	1.09897	1.10538	1.09763	
January 20 2021	260.29055	1.09621	1.09895	1.10535	1.09761	
January 21 2021	260.28542	1.09619	1.09893	1.10533	1.09759	
January 22 2021	260.28029	1.09617	1.09891	1.10531	1.09756	
January 23 2021	260.27516	1.09614	1.09888	1.10529	1.09754	
January 24 2021	260.27003	1.09612	1.09886	1.10527	1.09752	
January 25 2021	260.26490	1.09610	1.09884	1.10525	1.09750	
January 26 2021	260.25977	1.09608	1.09882	1.10522	1.09748	
January 27 2021	260.25465	1.09606	1.09880	1.10520	1.09746	
January 28 2021	260.24952	1.09604	1.09878	1.10518	1.09743	
January 29 2021	260.24439	1.09602	1.09875	1.10516	1.09741	
January 30 2021	260.23926	1.09599	1.09873	1.10514	1.09739	
January 31 2021	260.23413	1.09597	1.09871	1.10511	1.09737	
CPI-U (NSA) for:	September 2020	260.28	October 2020	260.388	November 2020	260.229

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Ref CPI and Index Ratios for
January 2021

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% 5-Year TIPS Series X-2021 912828Q60 April 15, 2016 April 29, 2016 August 31, 2016 December 30, 2016	0-1/8% 10-Year TIPS Series D-2026 912828S50 July 15, 2016 July 29, 2016 September 30, 2016 November 30, 2016
Maturity Date: Ref CPI on Dated Date:			January 15, 2026 237.61129	February 15, 2046 236.94448	April 15, 2021 237.00700	July 15, 2026 239.70132
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January 1 2021	260.38800	1.09586	1.09894	1.09865	1.08630	
January 2 2021	260.38287	1.09584	1.09892	1.09863	1.08628	
January 3 2021	260.37774	1.09581	1.09890	1.09861	1.08626	
January 4 2021	260.37261	1.09579	1.09888	1.09859	1.08624	
January 5 2021	260.36748	1.09577	1.09885	1.09856	1.08622	
January 6 2021	260.36235	1.09575	1.09883	1.09854	1.08619	
January 7 2021	260.35723	1.09573	1.09881	1.09852	1.08617	
January 8 2021	260.35210	1.09571	1.09879	1.09850	1.08615	
January 9 2021	260.34697	1.09568	1.09877	1.09848	1.08613	
January 10 2021	260.34184	1.09566	1.09875	1.09846	1.08611	
January 11 2021	260.33671	1.09564	1.09872	1.09843	1.08609	
January 12 2021	260.33158	1.09562	1.09870	1.09841	1.08607	
January 13 2021	260.32645	1.09560	1.09868	1.09839	1.08605	
January 14 2021	260.32132	1.09558	1.09866	1.09837	1.08602	
January 15 2021	260.31619	1.09555	1.09864	1.09835	1.08600	
January 16 2021	260.31106	1.09553	1.09862	1.09833	1.08598	
January 17 2021	260.30594	1.09551	1.09859	1.09830	1.08596	
January 18 2021	260.30081	1.09549	1.09857	1.09828	1.08594	
January 19 2021	260.29568	1.09547	1.09855	1.09826	1.08592	
January 20 2021	260.29055	1.09545	1.09853	1.09824	1.08590	
January 21 2021	260.28542	1.09543	1.09851	1.09822	1.08587	
January 22 2021	260.28029	1.09540	1.09849	1.09820	1.08585	
January 23 2021	260.27516	1.09538	1.09846	1.09817	1.08583	
January 24 2021	260.27003	1.09536	1.09844	1.09815	1.08581	
January 25 2021	260.26490	1.09534	1.09842	1.09813	1.08579	
January 26 2021	260.25977	1.09532	1.09840	1.09811	1.08577	
January 27 2021	260.25465	1.09530	1.09838	1.09809	1.08575	
January 28 2021	260.24952	1.09527	1.09836	1.09807	1.08572	
January 29 2021	260.24439	1.09525	1.09833	1.09805	1.08570	
January 30 2021	260.23926	1.09523	1.09831	1.09802	1.08568	
January 31 2021	260.23413	1.09521	1.09829	1.09800	1.08566	
CPI-U (NSA) for:	September 2020	260.28	October 2020	260.388	November 2020	260.229

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
January 2021

Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January	1	2021	260.38800	1.07795	1.07869	1.07069	1.06447	
January	2	2021	260.38287	1.07793	1.07867	1.07067	1.06445	
January	3	2021	260.37774	1.07790	1.07865	1.07065	1.06442	
January	4	2021	260.37261	1.07788	1.07863	1.07063	1.06440	
January	5	2021	260.36748	1.07786	1.07861	1.07061	1.06438	
January	6	2021	260.36235	1.07784	1.07859	1.07059	1.06436	
January	7	2021	260.35723	1.07782	1.07856	1.07057	1.06434	
January	8	2021	260.35210	1.07780	1.07854	1.07055	1.06432	
January	9	2021	260.34697	1.07778	1.07852	1.07053	1.06430	
January	10	2021	260.34184	1.07776	1.07850	1.07050	1.06428	
January	11	2021	260.33671	1.07773	1.07848	1.07048	1.06426	
January	12	2021	260.33158	1.07771	1.07846	1.07046	1.06424	
January	13	2021	260.32645	1.07769	1.07844	1.07044	1.06421	
January	14	2021	260.32132	1.07767	1.07842	1.07042	1.06419	
January	15	2021	260.31619	1.07765	1.07839	1.07040	1.06417	
January	16	2021	260.31106	1.07763	1.07837	1.07038	1.06415	
January	17	2021	260.30594	1.07761	1.07835	1.07036	1.06413	
January	18	2021	260.30081	1.07759	1.07833	1.07034	1.06411	
January	19	2021	260.29568	1.07756	1.07831	1.07031	1.06409	
January	20	2021	260.29055	1.07754	1.07829	1.07029	1.06407	
January	21	2021	260.28542	1.07752	1.07827	1.07027	1.06405	
January	22	2021	260.28029	1.07750	1.07825	1.07025	1.06403	
January	23	2021	260.27516	1.07748	1.07822	1.07023	1.06400	
January	24	2021	260.27003	1.07746	1.07820	1.07021	1.06398	
January	25	2021	260.26490	1.07744	1.07818	1.07019	1.06396	
January	26	2021	260.25977	1.07742	1.07816	1.07017	1.06394	
January	27	2021	260.25465	1.07739	1.07814	1.07015	1.06392	
January	28	2021	260.24952	1.07737	1.07812	1.07012	1.06390	
January	29	2021	260.24439	1.07735	1.07810	1.07010	1.06388	
January	30	2021	260.23926	1.07733	1.07808	1.07008	1.06386	
January	31	2021	260.23413	1.07731	1.07805	1.07006	1.06384	
CPI-U (NSA) for:			September 2020	260.28	October 2020	260.388	November 2020	260.229

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
January 2021

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	0-5/8% 5-Year TIPS Series X-2023 9128284H0 April 15, 2018 April 30, 2018 August 31, 2018 December 31, 2018	0-3/4% 10-Year TIPS Series D-2028 912828Y38 July 15, 2018 July 31, 2018 September 28, 2018 November 30, 2018
Maturity Date: Ref CPI on Dated Date:			January 15, 2028 246.66571	February 15, 2048 246.59650	April 15, 2023 248.39153	July 15, 2028 251.01658
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January 1 2021	260.38800	1.05563	1.05593	1.04830	1.03733	
January 2 2021	260.38287	1.05561	1.05591	1.04828	1.03731	
January 3 2021	260.37774	1.05559	1.05589	1.04826	1.03729	
January 4 2021	260.37261	1.05557	1.05586	1.04823	1.03727	
January 5 2021	260.36748	1.05555	1.05584	1.04821	1.03725	
January 6 2021	260.36235	1.05553	1.05582	1.04819	1.03723	
January 7 2021	260.35723	1.05551	1.05580	1.04817	1.03721	
January 8 2021	260.35210	1.05549	1.05578	1.04815	1.03719	
January 9 2021	260.34697	1.05546	1.05576	1.04813	1.03717	
January 10 2021	260.34184	1.05544	1.05574	1.04811	1.03715	
January 11 2021	260.33671	1.05542	1.05572	1.04809	1.03713	
January 12 2021	260.33158	1.05540	1.05570	1.04807	1.03711	
January 13 2021	260.32645	1.05538	1.05568	1.04805	1.03709	
January 14 2021	260.32132	1.05536	1.05566	1.04803	1.03707	
January 15 2021	260.31619	1.05534	1.05564	1.04801	1.03705	
January 16 2021	260.31106	1.05532	1.05562	1.04799	1.03703	
January 17 2021	260.30594	1.05530	1.05559	1.04797	1.03701	
January 18 2021	260.30081	1.05528	1.05557	1.04795	1.03699	
January 19 2021	260.29568	1.05526	1.05555	1.04792	1.03697	
January 20 2021	260.29055	1.05524	1.05553	1.04790	1.03695	
January 21 2021	260.28542	1.05522	1.05551	1.04788	1.03693	
January 22 2021	260.28029	1.05519	1.05549	1.04786	1.03690	
January 23 2021	260.27516	1.05517	1.05547	1.04784	1.03688	
January 24 2021	260.27003	1.05515	1.05545	1.04782	1.03686	
January 25 2021	260.26490	1.05513	1.05543	1.04780	1.03684	
January 26 2021	260.25977	1.05511	1.05541	1.04778	1.03682	
January 27 2021	260.25465	1.05509	1.05539	1.04776	1.03680	
January 28 2021	260.24952	1.05507	1.05537	1.04774	1.03678	
January 29 2021	260.24439	1.05505	1.05535	1.04772	1.03676	
January 30 2021	260.23926	1.05503	1.05532	1.04770	1.03674	
January 31 2021	260.23413	1.05501	1.05530	1.04768	1.03672	
CPI-U (NSA) for:	September 2020	260.28	October 2020	260.388	November 2020	260.229

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
January 2021

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-1/2% 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
Maturity Date: Ref CPI on Dated Date:			January 15, 2029 252.50248	February 15, 2049 251.63550	April 15, 2024 252.20853	July 15, 2029 255.79368
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January 1 2021	260.38800	1.03123	1.03478	1.03243	1.01796	
January 2 2021	260.38287	1.03121	1.03476	1.03241	1.01794	
January 3 2021	260.37774	1.03119	1.03474	1.03239	1.01792	
January 4 2021	260.37261	1.03117	1.03472	1.03237	1.01790	
January 5 2021	260.36748	1.03115	1.03470	1.03235	1.01788	
January 6 2021	260.36235	1.03113	1.03468	1.03233	1.01786	
January 7 2021	260.35723	1.03111	1.03466	1.03231	1.01784	
January 8 2021	260.35210	1.03109	1.03464	1.03229	1.01782	
January 9 2021	260.34697	1.03107	1.03462	1.03227	1.01780	
January 10 2021	260.34184	1.03105	1.03460	1.03225	1.01778	
January 11 2021	260.33671	1.03103	1.03458	1.03223	1.01776	
January 12 2021	260.33158	1.03101	1.03456	1.03221	1.01774	
January 13 2021	260.32645	1.03099	1.03454	1.03219	1.01772	
January 14 2021	260.32132	1.03097	1.03452	1.03217	1.01770	
January 15 2021	260.31619	1.03095	1.03450	1.03215	1.01768	
January 16 2021	260.31106	1.03092	1.03448	1.03213	1.01766	
January 17 2021	260.30594	1.03090	1.03446	1.03211	1.01764	
January 18 2021	260.30081	1.03088	1.03444	1.03209	1.01762	
January 19 2021	260.29568	1.03086	1.03442	1.03207	1.01760	
January 20 2021	260.29055	1.03084	1.03440	1.03204	1.01758	
January 21 2021	260.28542	1.03082	1.03437	1.03202	1.01756	
January 22 2021	260.28029	1.03080	1.03435	1.03200	1.01754	
January 23 2021	260.27516	1.03078	1.03433	1.03198	1.01752	
January 24 2021	260.27003	1.03076	1.03431	1.03196	1.01750	
January 25 2021	260.26490	1.03074	1.03429	1.03194	1.01748	
January 26 2021	260.25977	1.03072	1.03427	1.03192	1.01746	
January 27 2021	260.25465	1.03070	1.03425	1.03190	1.01744	
January 28 2021	260.24952	1.03068	1.03423	1.03188	1.01742	
January 29 2021	260.24439	1.03066	1.03421	1.03186	1.01740	
January 30 2021	260.23926	1.03064	1.03419	1.03184	1.01738	
January 31 2021	260.23413	1.03062	1.03417	1.03182	1.01736	
CPI-U (NSA) for:	September 2020	260.28	October 2020	260.388	November 2020	260.229

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
January 2021

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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 912828ZJ7 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
Maturity Date: Ref CPI on Dated Date:			October 15, 2024 256.56513	January 15, 2030 257.28368	February 15, 2050 257.09503	April 15, 2025 258.30093
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
January 1 2021	260.38800	1.01490	1.01207	1.01281	1.00808	
January 2 2021	260.38287	1.01488	1.01205	1.01279	1.00806	
January 3 2021	260.37774	1.01486	1.01203	1.01277	1.00804	
January 4 2021	260.37261	1.01484	1.01201	1.01275	1.00802	
January 5 2021	260.36748	1.01482	1.01199	1.01273	1.00800	
January 6 2021	260.36235	1.01480	1.01197	1.01271	1.00798	
January 7 2021	260.35723	1.01478	1.01195	1.01269	1.00796	
January 8 2021	260.35210	1.01476	1.01193	1.01267	1.00794	
January 9 2021	260.34697	1.01474	1.01191	1.01265	1.00792	
January 10 2021	260.34184	1.01472	1.01189	1.01263	1.00790	
January 11 2021	260.33671	1.01470	1.01187	1.01261	1.00788	
January 12 2021	260.33158	1.01468	1.01185	1.01259	1.00786	
January 13 2021	260.32645	1.01466	1.01183	1.01257	1.00784	
January 14 2021	260.32132	1.01464	1.01181	1.01255	1.00782	
January 15 2021	260.31619	1.01462	1.01179	1.01253	1.00780	
January 16 2021	260.31106	1.01460	1.01177	1.01251	1.00778	
January 17 2021	260.30594	1.01458	1.01175	1.01249	1.00776	
January 18 2021	260.30081	1.01456	1.01173	1.01247	1.00774	
January 19 2021	260.29568	1.01454	1.01171	1.01245	1.00772	
January 20 2021	260.29055	1.01452	1.01169	1.01243	1.00770	
January 21 2021	260.28542	1.01450	1.01167	1.01241	1.00768	
January 22 2021	260.28029	1.01448	1.01165	1.01239	1.00766	
January 23 2021	260.27516	1.01446	1.01163	1.01237	1.00764	
January 24 2021	260.27003	1.01444	1.01161	1.01235	1.00762	
January 25 2021	260.26490	1.01442	1.01159	1.01233	1.00760	
January 26 2021	260.25977	1.01440	1.01157	1.01231	1.00758	
January 27 2021	260.25465	1.01438	1.01155	1.01229	1.00756	
January 28 2021	260.24952	1.01436	1.01153	1.01227	1.00754	
January 29 2021	260.24439	1.01434	1.01151	1.01225	1.00752	
January 30 2021	260.23926	1.01432	1.01149	1.01223	1.00750	
January 31 2021	260.23413	1.01430	1.01147	1.01221	1.00748	
CPI-U (NSA) for:	September 2020	260.28	October 2020	260.388	November 2020	260.229

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
January 2021

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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				
Maturity Date: Ref CPI on Dated Date:			July 15, 2030 256.39126	October 15, 2025 259.46997				
Date			Ref CPI	Index Ratio	Index Ratio			
January	1	2021	260.38800	1.01559	1.00354			
January	2	2021	260.38287	1.01557	1.00352			
January	3	2021	260.37774	1.01555	1.00350			
January	4	2021	260.37261	1.01553	1.00348			
January	5	2021	260.36748	1.01551	1.00346			
January	6	2021	260.36235	1.01549	1.00344			
January	7	2021	260.35723	1.01547	1.00342			
January	8	2021	260.35210	1.01545	1.00340			
January	9	2021	260.34697	1.01543	1.00338			
January	10	2021	260.34184	1.01541	1.00336			
January	11	2021	260.33671	1.01539	1.00334			
January	12	2021	260.33158	1.01537	1.00332			
January	13	2021	260.32645	1.01535	1.00330			
January	14	2021	260.32132	1.01533	1.00328			
January	15	2021	260.31619	1.01531	1.00326			
January	16	2021	260.31106	1.01529	1.00324			
January	17	2021	260.30594	1.01527	1.00322			
January	18	2021	260.30081	1.01525	1.00320			
January	19	2021	260.29568	1.01523	1.00318			
January	20	2021	260.29055	1.01521	1.00316			
January	21	2021	260.28542	1.01519	1.00314			
January	22	2021	260.28029	1.01517	1.00312			
January	23	2021	260.27516	1.01515	1.00310			
January	24	2021	260.27003	1.01513	1.00308			
January	25	2021	260.26490	1.01511	1.00306			
January	26	2021	260.25977	1.01509	1.00304			
January	27	2021	260.25465	1.01507	1.00302			
January	28	2021	260.24952	1.01505	1.00300			
January	29	2021	260.24439	1.01503	1.00298			
January	30	2021	260.23926	1.01501	1.00296			
January	31	2021	260.23413	1.01499	1.00295			
CPI-U (NSA) for:			September 2020	260.28	October 2020	260.388	November 2020	260.229