

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
May 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	
May 1 2021	263.01400	1.62615	1.59991	1.48177	1.39532	
May 2 2021	263.07410	1.62652	1.60027	1.48211	1.39564	
May 3 2021	263.13419	1.62690	1.60064	1.48245	1.39596	
May 4 2021	263.19429	1.62727	1.60100	1.48278	1.39628	
May 5 2021	263.25439	1.62764	1.60137	1.48312	1.39660	
May 6 2021	263.31448	1.62801	1.60173	1.48346	1.39692	
May 7 2021	263.37458	1.62838	1.60210	1.48380	1.39724	
May 8 2021	263.43468	1.62875	1.60247	1.48414	1.39756	
May 9 2021	263.49477	1.62913	1.60283	1.48448	1.39787	
May 10 2021	263.55487	1.62950	1.60320	1.48482	1.39819	
May 11 2021	263.61497	1.62987	1.60356	1.48515	1.39851	
May 12 2021	263.67506	1.63024	1.60393	1.48549	1.39883	
May 13 2021	263.73516	1.63061	1.60429	1.48583	1.39915	
May 14 2021	263.79526	1.63098	1.60466	1.48617	1.39947	
May 15 2021	263.85535	1.63135	1.60502	1.48651	1.39979	
May 16 2021	263.91545	1.63173	1.60539	1.48685	1.40011	
May 17 2021	263.97555	1.63210	1.60576	1.48719	1.40042	
May 18 2021	264.03565	1.63247	1.60612	1.48752	1.40074	
May 19 2021	264.09574	1.63284	1.60649	1.48786	1.40106	
May 20 2021	264.15584	1.63321	1.60685	1.48820	1.40138	
May 21 2021	264.21594	1.63358	1.60722	1.48854	1.40170	
May 22 2021	264.27603	1.63396	1.60758	1.48888	1.40202	
May 23 2021	264.33613	1.63433	1.60795	1.48922	1.40234	
May 24 2021	264.39623	1.63470	1.60831	1.48956	1.40266	
May 25 2021	264.45632	1.63507	1.60868	1.48989	1.40298	
May 26 2021	264.51642	1.63544	1.60905	1.49023	1.40329	
May 27 2021	264.57652	1.63581	1.60941	1.49057	1.40361	
May 28 2021	264.63661	1.63619	1.60978	1.49091	1.40393	
May 29 2021	264.69671	1.63656	1.61014	1.49125	1.40425	
May 30 2021	264.75681	1.63693	1.61051	1.49159	1.40457	
May 31 2021	264.81690	1.63730	1.61087	1.49193	1.40489	
CPI-U (NSA) for:			January 2021 261.582	February 2021 263.014	March 2021 264.877	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
May 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	
May 1 2021	263.01400	1.32516	1.30422	1.25546	1.22503	
May 2 2021	263.07410	1.32546	1.30451	1.25574	1.22531	
May 3 2021	263.13419	1.32576	1.30481	1.25603	1.22559	
May 4 2021	263.19429	1.32607	1.30511	1.25632	1.22587	
May 5 2021	263.25439	1.32637	1.30541	1.25661	1.22615	
May 6 2021	263.31448	1.32667	1.30571	1.25689	1.22643	
May 7 2021	263.37458	1.32698	1.30600	1.25718	1.22671	
May 8 2021	263.43468	1.32728	1.30630	1.25747	1.22699	
May 9 2021	263.49477	1.32758	1.30660	1.25775	1.22727	
May 10 2021	263.55487	1.32788	1.30690	1.25804	1.22755	
May 11 2021	263.61497	1.32819	1.30720	1.25833	1.22783	
May 12 2021	263.67506	1.32849	1.30749	1.25861	1.22811	
May 13 2021	263.73516	1.32879	1.30779	1.25890	1.22839	
May 14 2021	263.79526	1.32909	1.30809	1.25919	1.22867	
May 15 2021	263.85535	1.32940	1.30839	1.25947	1.22895	
May 16 2021	263.91545	1.32970	1.30869	1.25976	1.22923	
May 17 2021	263.97555	1.33000	1.30898	1.26005	1.22951	
May 18 2021	264.03565	1.33031	1.30928	1.26033	1.22979	
May 19 2021	264.09574	1.33061	1.30958	1.26062	1.23007	
May 20 2021	264.15584	1.33091	1.30988	1.26091	1.23035	
May 21 2021	264.21594	1.33121	1.31018	1.26120	1.23063	
May 22 2021	264.27603	1.33152	1.31047	1.26148	1.23091	
May 23 2021	264.33613	1.33182	1.31077	1.26177	1.23119	
May 24 2021	264.39623	1.33212	1.31107	1.26206	1.23147	
May 25 2021	264.45632	1.33243	1.31137	1.26234	1.23175	
May 26 2021	264.51642	1.33273	1.31167	1.26263	1.23203	
May 27 2021	264.57652	1.33303	1.31196	1.26292	1.23231	
May 28 2021	264.63661	1.33333	1.31226	1.26320	1.23259	
May 29 2021	264.69671	1.33364	1.31256	1.26349	1.23287	
May 30 2021	264.75681	1.33394	1.31286	1.26378	1.23315	
May 31 2021	264.81690	1.33424	1.31316	1.26406	1.23343	
CPI-U (NSA) for:	January 2021	261.582	February 2021	263.014	March 2021	264.877

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
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Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May	1	2021	263.01400	1.21687	1.20103	1.16696	1.16206	
May	2	2021	263.07410	1.21715	1.20130	1.16723	1.16232	
May	3	2021	263.13419	1.21743	1.20158	1.16749	1.16259	
May	4	2021	263.19429	1.21771	1.20185	1.16776	1.16285	
May	5	2021	263.25439	1.21798	1.20212	1.16803	1.16312	
May	6	2021	263.31448	1.21826	1.20240	1.16829	1.16339	
May	7	2021	263.37458	1.21854	1.20267	1.16856	1.16365	
May	8	2021	263.43468	1.21882	1.20295	1.16883	1.16392	
May	9	2021	263.49477	1.21910	1.20322	1.16909	1.16418	
May	10	2021	263.55487	1.21937	1.20350	1.16936	1.16445	
May	11	2021	263.61497	1.21965	1.20377	1.16963	1.16471	
May	12	2021	263.67506	1.21993	1.20405	1.16989	1.16498	
May	13	2021	263.73516	1.22021	1.20432	1.17016	1.16524	
May	14	2021	263.79526	1.22049	1.20459	1.17043	1.16551	
May	15	2021	263.85535	1.22076	1.20487	1.17069	1.16577	
May	16	2021	263.91545	1.22104	1.20514	1.17096	1.16604	
May	17	2021	263.97555	1.22132	1.20542	1.17123	1.16631	
May	18	2021	264.03565	1.22160	1.20569	1.17149	1.16657	
May	19	2021	264.09574	1.22188	1.20597	1.17176	1.16684	
May	20	2021	264.15584	1.22215	1.20624	1.17203	1.16710	
May	21	2021	264.21594	1.22243	1.20652	1.17229	1.16737	
May	22	2021	264.27603	1.22271	1.20679	1.17256	1.16763	
May	23	2021	264.33613	1.22299	1.20706	1.17283	1.16790	
May	24	2021	264.39623	1.22327	1.20734	1.17309	1.16816	
May	25	2021	264.45632	1.22354	1.20761	1.17336	1.16843	
May	26	2021	264.51642	1.22382	1.20789	1.17363	1.16870	
May	27	2021	264.57652	1.22410	1.20816	1.17389	1.16896	
May	28	2021	264.63661	1.22438	1.20844	1.17416	1.16923	
May	29	2021	264.69671	1.22466	1.20871	1.17443	1.16949	
May	30	2021	264.75681	1.22493	1.20898	1.17469	1.16976	
May	31	2021	264.81690	1.22521	1.20926	1.17496	1.17002	
CPI-U (NSA) for:			January 2021	261.582	February 2021	263.014	March 2021	264.877

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-3/4% 30-Year TIPS TIPS of February 2042 912810QV3 February 15, 2012 February 29, 2012 June 29, 2012 October 31, 2012	0-1/8% 10-Year TIPS Series D-2022 912828TE0 July 15, 2012 July 31, 2012 September 28, 2012 November 30, 2012	0-1/8% 10-Year TIPS Series A-2023 912828UH1 January 15, 2013 January 31, 2013 March 28, 2013 May 31, 2013	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, 2042 225.96062	July 15, 2022 229.96306	January 15, 2023 230.82203	February 15, 2043 229.91100
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May 1 2021	263.01400	1.16398	1.14372	1.13947	1.14398	
May 2 2021	263.07410	1.16425	1.14398	1.13973	1.14424	
May 3 2021	263.13419	1.16451	1.14425	1.13999	1.14450	
May 4 2021	263.19429	1.16478	1.14451	1.14025	1.14477	
May 5 2021	263.25439	1.16505	1.14477	1.14051	1.14503	
May 6 2021	263.31448	1.16531	1.14503	1.14077	1.14529	
May 7 2021	263.37458	1.16558	1.14529	1.14103	1.14555	
May 8 2021	263.43468	1.16584	1.14555	1.14129	1.14581	
May 9 2021	263.49477	1.16611	1.14581	1.14155	1.14607	
May 10 2021	263.55487	1.16638	1.14607	1.14181	1.14633	
May 11 2021	263.61497	1.16664	1.14634	1.14207	1.14660	
May 12 2021	263.67506	1.16691	1.14660	1.14233	1.14686	
May 13 2021	263.73516	1.16717	1.14686	1.14259	1.14712	
May 14 2021	263.79526	1.16744	1.14712	1.14285	1.14738	
May 15 2021	263.85535	1.16771	1.14738	1.14311	1.14764	
May 16 2021	263.91545	1.16797	1.14764	1.14337	1.14790	
May 17 2021	263.97555	1.16824	1.14790	1.14363	1.14816	
May 18 2021	264.03565	1.16850	1.14817	1.14389	1.14843	
May 19 2021	264.09574	1.16877	1.14843	1.14415	1.14869	
May 20 2021	264.15584	1.16903	1.14869	1.14441	1.14895	
May 21 2021	264.21594	1.16930	1.14895	1.14467	1.14921	
May 22 2021	264.27603	1.16957	1.14921	1.14493	1.14947	
May 23 2021	264.33613	1.16983	1.14947	1.14519	1.14973	
May 24 2021	264.39623	1.17010	1.14973	1.14545	1.14999	
May 25 2021	264.45632	1.17036	1.14999	1.14572	1.15026	
May 26 2021	264.51642	1.17063	1.15026	1.14598	1.15052	
May 27 2021	264.57652	1.17090	1.15052	1.14624	1.15078	
May 28 2021	264.63661	1.17116	1.15078	1.14650	1.15104	
May 29 2021	264.69671	1.17143	1.15104	1.14676	1.15130	
May 30 2021	264.75681	1.17169	1.15130	1.14702	1.15156	
May 31 2021	264.81690	1.17196	1.15156	1.14728	1.15182	
CPI-U (NSA) for:	January 2021	261.582	February 2021	263.014	March 2021	264.877

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

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	
May 1 2021	263.01400	1.13018	1.12722	1.12853	1.10768	
May 2 2021	263.07410	1.13044	1.12747	1.12879	1.10793	
May 3 2021	263.13419	1.13070	1.12773	1.12905	1.10819	
May 4 2021	263.19429	1.13096	1.12799	1.12930	1.10844	
May 5 2021	263.25439	1.13122	1.12825	1.12956	1.10869	
May 6 2021	263.31448	1.13147	1.12850	1.12982	1.10894	
May 7 2021	263.37458	1.13173	1.12876	1.13008	1.10920	
May 8 2021	263.43468	1.13199	1.12902	1.13033	1.10945	
May 9 2021	263.49477	1.13225	1.12928	1.13059	1.10970	
May 10 2021	263.55487	1.13251	1.12953	1.13085	1.10996	
May 11 2021	263.61497	1.13277	1.12979	1.13111	1.11021	
May 12 2021	263.67506	1.13302	1.13005	1.13137	1.11046	
May 13 2021	263.73516	1.13328	1.13031	1.13162	1.11072	
May 14 2021	263.79526	1.13354	1.13056	1.13188	1.11097	
May 15 2021	263.85535	1.13380	1.13082	1.13214	1.11122	
May 16 2021	263.91545	1.13406	1.13108	1.13240	1.11148	
May 17 2021	263.97555	1.13432	1.13134	1.13266	1.11173	
May 18 2021	264.03565	1.13457	1.13159	1.13291	1.11198	
May 19 2021	264.09574	1.13483	1.13185	1.13317	1.11224	
May 20 2021	264.15584	1.13509	1.13211	1.13343	1.11249	
May 21 2021	264.21594	1.13535	1.13237	1.13369	1.11274	
May 22 2021	264.27603	1.13561	1.13262	1.13394	1.11299	
May 23 2021	264.33613	1.13586	1.13288	1.13420	1.11325	
May 24 2021	264.39623	1.13612	1.13314	1.13446	1.11350	
May 25 2021	264.45632	1.13638	1.13340	1.13472	1.11375	
May 26 2021	264.51642	1.13664	1.13366	1.13498	1.11401	
May 27 2021	264.57652	1.13690	1.13391	1.13523	1.11426	
May 28 2021	264.63661	1.13716	1.13417	1.13549	1.11451	
May 29 2021	264.69671	1.13741	1.13443	1.13575	1.11477	
May 30 2021	264.75681	1.13767	1.13469	1.13601	1.11502	
May 31 2021	264.81690	1.13793	1.13494	1.13627	1.11527	
CPI-U (NSA) for:			January 2021 261.582	February 2021 263.014	March 2021 264.877	

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

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 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	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	
May 1 2021	263.01400	1.11045	1.11692	1.10909	1.10691	
May 2 2021	263.07410	1.11070	1.11718	1.10934	1.10716	
May 3 2021	263.13419	1.11096	1.11743	1.10960	1.10741	
May 4 2021	263.19429	1.11121	1.11769	1.10985	1.10767	
May 5 2021	263.25439	1.11146	1.11794	1.11011	1.10792	
May 6 2021	263.31448	1.11172	1.11820	1.11036	1.10817	
May 7 2021	263.37458	1.11197	1.11845	1.11061	1.10843	
May 8 2021	263.43468	1.11222	1.11871	1.11087	1.10868	
May 9 2021	263.49477	1.11248	1.11896	1.11112	1.10893	
May 10 2021	263.55487	1.11273	1.11922	1.11137	1.10918	
May 11 2021	263.61497	1.11298	1.11947	1.11163	1.10944	
May 12 2021	263.67506	1.11324	1.11973	1.11188	1.10969	
May 13 2021	263.73516	1.11349	1.11998	1.11213	1.10994	
May 14 2021	263.79526	1.11375	1.12024	1.11239	1.11020	
May 15 2021	263.85535	1.11400	1.12049	1.11264	1.11045	
May 16 2021	263.91545	1.11425	1.12075	1.11289	1.11070	
May 17 2021	263.97555	1.11451	1.12100	1.11315	1.11096	
May 18 2021	264.03565	1.11476	1.12126	1.11340	1.11121	
May 19 2021	264.09574	1.11501	1.12151	1.11365	1.11146	
May 20 2021	264.15584	1.11527	1.12177	1.11391	1.11171	
May 21 2021	264.21594	1.11552	1.12202	1.11416	1.11197	
May 22 2021	264.27603	1.11578	1.12228	1.11441	1.11222	
May 23 2021	264.33613	1.11603	1.12253	1.11467	1.11247	
May 24 2021	264.39623	1.11628	1.12279	1.11492	1.11273	
May 25 2021	264.45632	1.11654	1.12304	1.11517	1.11298	
May 26 2021	264.51642	1.11679	1.12330	1.11543	1.11323	
May 27 2021	264.57652	1.11704	1.12356	1.11568	1.11348	
May 28 2021	264.63661	1.11730	1.12381	1.11593	1.11374	
May 29 2021	264.69671	1.11755	1.12407	1.11619	1.11399	
May 30 2021	264.75681	1.11781	1.12432	1.11644	1.11424	
May 31 2021	264.81690	1.11806	1.12458	1.11669	1.11450	
CPI-U (NSA) for:			January 2021 261.582	February 2021 263.014	March 2021 264.877	

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

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	
May 1 2021	263.01400	1.11002	1.09726	1.08882	1.08957	
May 2 2021	263.07410	1.11028	1.09751	1.08907	1.08982	
May 3 2021	263.13419	1.11053	1.09776	1.08932	1.09007	
May 4 2021	263.19429	1.11078	1.09801	1.08956	1.09032	
May 5 2021	263.25439	1.11104	1.09826	1.08981	1.09057	
May 6 2021	263.31448	1.11129	1.09851	1.09006	1.09081	
May 7 2021	263.37458	1.11155	1.09876	1.09031	1.09106	
May 8 2021	263.43468	1.11180	1.09901	1.09056	1.09131	
May 9 2021	263.49477	1.11205	1.09926	1.09081	1.09156	
May 10 2021	263.55487	1.11231	1.09951	1.09106	1.09181	
May 11 2021	263.61497	1.11256	1.09976	1.09131	1.09206	
May 12 2021	263.67506	1.11281	1.10002	1.09155	1.09231	
May 13 2021	263.73516	1.11307	1.10027	1.09180	1.09256	
May 14 2021	263.79526	1.11332	1.10052	1.09205	1.09281	
May 15 2021	263.85535	1.11357	1.10077	1.09230	1.09306	
May 16 2021	263.91545	1.11383	1.10102	1.09255	1.09330	
May 17 2021	263.97555	1.11408	1.10127	1.09280	1.09355	
May 18 2021	264.03565	1.11434	1.10152	1.09305	1.09380	
May 19 2021	264.09574	1.11459	1.10177	1.09330	1.09405	
May 20 2021	264.15584	1.11484	1.10202	1.09354	1.09430	
May 21 2021	264.21594	1.11510	1.10227	1.09379	1.09455	
May 22 2021	264.27603	1.11535	1.10252	1.09404	1.09480	
May 23 2021	264.33613	1.11560	1.10277	1.09429	1.09505	
May 24 2021	264.39623	1.11586	1.10302	1.09454	1.09530	
May 25 2021	264.45632	1.11611	1.10327	1.09479	1.09554	
May 26 2021	264.51642	1.11636	1.10353	1.09504	1.09579	
May 27 2021	264.57652	1.11662	1.10378	1.09529	1.09604	
May 28 2021	264.63661	1.11687	1.10403	1.09554	1.09629	
May 29 2021	264.69671	1.11713	1.10428	1.09578	1.09654	
May 30 2021	264.75681	1.11738	1.10453	1.09603	1.09679	
May 31 2021	264.81690	1.11763	1.10478	1.09628	1.09704	
CPI-U (NSA) for:	January 2021	261.582	February 2021	263.014	March 2021	264.877

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/8% 5-Year TIPS Series X-2022 912828X39 April 15, 2017 April 28, 2017 August 31, 2017 December 29, 2017	0-3/8% 10-Year TIPS Series D-2027 9128282L3 July 15, 2017 July 31, 2017 September 29, 2017 November 30, 2017	0-1/2% 10-Year TIPS Series A-2028 9128283R9 January 15, 2018 January 31, 2018 March 29, 2018 May 31, 2018	1% 30-Year TIPS TIPS of February 2048 912810SB5 February 15, 2018 February 28, 2018 June 29, 2018 October 31, 2018
Maturity Date: Ref CPI on Dated Date:			April 15, 2022 243.19553	July 15, 2027 244.61839	January 15, 2028 246.66571	February 15, 2048 246.59650
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May 1 2021	263.01400	1.08149	1.07520	1.06628	1.06658	
May 2 2021	263.07410	1.08174	1.07545	1.06652	1.06682	
May 3 2021	263.13419	1.08199	1.07569	1.06676	1.06706	
May 4 2021	263.19429	1.08223	1.07594	1.06701	1.06731	
May 5 2021	263.25439	1.08248	1.07618	1.06725	1.06755	
May 6 2021	263.31448	1.08273	1.07643	1.06750	1.06779	
May 7 2021	263.37458	1.08297	1.07668	1.06774	1.06804	
May 8 2021	263.43468	1.08322	1.07692	1.06798	1.06828	
May 9 2021	263.49477	1.08347	1.07717	1.06823	1.06853	
May 10 2021	263.55487	1.08372	1.07741	1.06847	1.06877	
May 11 2021	263.61497	1.08396	1.07766	1.06871	1.06901	
May 12 2021	263.67506	1.08421	1.07790	1.06896	1.06926	
May 13 2021	263.73516	1.08446	1.07815	1.06920	1.06950	
May 14 2021	263.79526	1.08470	1.07840	1.06944	1.06974	
May 15 2021	263.85535	1.08495	1.07864	1.06969	1.06999	
May 16 2021	263.91545	1.08520	1.07889	1.06993	1.07023	
May 17 2021	263.97555	1.08545	1.07913	1.07018	1.07048	
May 18 2021	264.03565	1.08569	1.07938	1.07042	1.07072	
May 19 2021	264.09574	1.08594	1.07962	1.07066	1.07096	
May 20 2021	264.15584	1.08619	1.07987	1.07091	1.07121	
May 21 2021	264.21594	1.08643	1.08011	1.07115	1.07145	
May 22 2021	264.27603	1.08668	1.08036	1.07139	1.07169	
May 23 2021	264.33613	1.08693	1.08061	1.07164	1.07194	
May 24 2021	264.39623	1.08718	1.08085	1.07188	1.07218	
May 25 2021	264.45632	1.08742	1.08110	1.07212	1.07243	
May 26 2021	264.51642	1.08767	1.08134	1.07237	1.07267	
May 27 2021	264.57652	1.08792	1.08159	1.07261	1.07291	
May 28 2021	264.63661	1.08816	1.08183	1.07286	1.07316	
May 29 2021	264.69671	1.08841	1.08208	1.07310	1.07340	
May 30 2021	264.75681	1.08866	1.08233	1.07334	1.07364	
May 31 2021	264.81690	1.08891	1.08257	1.07359	1.07389	
CPI-U (NSA) for:	January 2021	261.582	February 2021	263.014	March 2021	264.877

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	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
Maturity Date: Ref CPI on Dated Date:			April 15, 2023 248.39153	July 15, 2028 251.01658	January 15, 2029 252.50248	February 15, 2049 251.63550
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May 1 2021	263.01400	1.05887	1.04780	1.04163	1.04522	
May 2 2021	263.07410	1.05911	1.04803	1.04187	1.04546	
May 3 2021	263.13419	1.05935	1.04827	1.04211	1.04570	
May 4 2021	263.19429	1.05959	1.04851	1.04234	1.04593	
May 5 2021	263.25439	1.05984	1.04875	1.04258	1.04617	
May 6 2021	263.31448	1.06008	1.04899	1.04282	1.04641	
May 7 2021	263.37458	1.06032	1.04923	1.04306	1.04665	
May 8 2021	263.43468	1.06056	1.04947	1.04330	1.04689	
May 9 2021	263.49477	1.06080	1.04971	1.04353	1.04713	
May 10 2021	263.55487	1.06105	1.04995	1.04377	1.04737	
May 11 2021	263.61497	1.06129	1.05019	1.04401	1.04761	
May 12 2021	263.67506	1.06153	1.05043	1.04425	1.04785	
May 13 2021	263.73516	1.06177	1.05067	1.04449	1.04808	
May 14 2021	263.79526	1.06201	1.05091	1.04472	1.04832	
May 15 2021	263.85535	1.06226	1.05115	1.04496	1.04856	
May 16 2021	263.91545	1.06250	1.05139	1.04520	1.04880	
May 17 2021	263.97555	1.06274	1.05163	1.04544	1.04904	
May 18 2021	264.03565	1.06298	1.05187	1.04568	1.04928	
May 19 2021	264.09574	1.06322	1.05210	1.04591	1.04952	
May 20 2021	264.15584	1.06347	1.05234	1.04615	1.04976	
May 21 2021	264.21594	1.06371	1.05258	1.04639	1.04999	
May 22 2021	264.27603	1.06395	1.05282	1.04663	1.05023	
May 23 2021	264.33613	1.06419	1.05306	1.04687	1.05047	
May 24 2021	264.39623	1.06443	1.05330	1.04710	1.05071	
May 25 2021	264.45632	1.06468	1.05354	1.04734	1.05095	
May 26 2021	264.51642	1.06492	1.05378	1.04758	1.05119	
May 27 2021	264.57652	1.06516	1.05402	1.04782	1.05143	
May 28 2021	264.63661	1.06540	1.05426	1.04806	1.05167	
May 29 2021	264.69671	1.06564	1.05450	1.04829	1.05191	
May 30 2021	264.75681	1.06589	1.05474	1.04853	1.05214	
May 31 2021	264.81690	1.06613	1.05498	1.04877	1.05238	
CPI-U (NSA) for:	January 2021	261.582	February 2021	263.014	March 2021	264.877

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-1/8% 10-Year TIPS Series A-2030 912828Z37 January 15, 2020 January 31, 2020 March 31, 2020 May 29, 2020
Maturity Date: Ref CPI on Dated Date:			April 15, 2024 252.20853	July 15, 2029 255.79368	October 15, 2024 256.56513	January 15, 2030 257.28368
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May 1 2021	263.01400	1.04284	1.02823	1.02514	1.02227	
May 2 2021	263.07410	1.04308	1.02846	1.02537	1.02251	
May 3 2021	263.13419	1.04332	1.02870	1.02560	1.02274	
May 4 2021	263.19429	1.04356	1.02893	1.02584	1.02297	
May 5 2021	263.25439	1.04380	1.02917	1.02607	1.02321	
May 6 2021	263.31448	1.04403	1.02940	1.02631	1.02344	
May 7 2021	263.37458	1.04427	1.02964	1.02654	1.02367	
May 8 2021	263.43468	1.04451	1.02987	1.02678	1.02391	
May 9 2021	263.49477	1.04475	1.03011	1.02701	1.02414	
May 10 2021	263.55487	1.04499	1.03034	1.02724	1.02437	
May 11 2021	263.61497	1.04523	1.03058	1.02748	1.02461	
May 12 2021	263.67506	1.04546	1.03081	1.02771	1.02484	
May 13 2021	263.73516	1.04570	1.03105	1.02795	1.02508	
May 14 2021	263.79526	1.04594	1.03128	1.02818	1.02531	
May 15 2021	263.85535	1.04618	1.03152	1.02841	1.02554	
May 16 2021	263.91545	1.04642	1.03175	1.02865	1.02578	
May 17 2021	263.97555	1.04666	1.03199	1.02888	1.02601	
May 18 2021	264.03565	1.04689	1.03222	1.02912	1.02624	
May 19 2021	264.09574	1.04713	1.03246	1.02935	1.02648	
May 20 2021	264.15584	1.04737	1.03269	1.02959	1.02671	
May 21 2021	264.21594	1.04761	1.03293	1.02982	1.02694	
May 22 2021	264.27603	1.04785	1.03316	1.03005	1.02718	
May 23 2021	264.33613	1.04809	1.03340	1.03029	1.02741	
May 24 2021	264.39623	1.04832	1.03363	1.03052	1.02764	
May 25 2021	264.45632	1.04856	1.03387	1.03076	1.02788	
May 26 2021	264.51642	1.04880	1.03410	1.03099	1.02811	
May 27 2021	264.57652	1.04904	1.03434	1.03123	1.02835	
May 28 2021	264.63661	1.04928	1.03457	1.03146	1.02858	
May 29 2021	264.69671	1.04952	1.03481	1.03169	1.02881	
May 30 2021	264.75681	1.04975	1.03504	1.03193	1.02905	
May 31 2021	264.81690	1.04999	1.03528	1.03216	1.02928	
CPI-U (NSA) for:			January 2021 261.582	February 2021 263.014	March 2021 264.877	

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-1/8% 5-Year TIPS Series AE-2025 91282CAQ4 October 15, 2020 October 30, 2020 December 31, 2020
Maturity Date: Ref CPI on Dated Date:			February 15, 2050 257.09503	April 15, 2025 258.30093	July 15, 2030 256.39126	October 15, 2025 259.46997
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
May 1 2021	263.01400	1.02302	1.01825	1.02583	1.01366	
May 2 2021	263.07410	1.02326	1.01848	1.02607	1.01389	
May 3 2021	263.13419	1.02349	1.01871	1.02630	1.01412	
May 4 2021	263.19429	1.02372	1.01894	1.02653	1.01435	
May 5 2021	263.25439	1.02396	1.01918	1.02677	1.01459	
May 6 2021	263.31448	1.02419	1.01941	1.02700	1.01482	
May 7 2021	263.37458	1.02443	1.01964	1.02724	1.01505	
May 8 2021	263.43468	1.02466	1.01988	1.02747	1.01528	
May 9 2021	263.49477	1.02489	1.02011	1.02771	1.01551	
May 10 2021	263.55487	1.02513	1.02034	1.02794	1.01574	
May 11 2021	263.61497	1.02536	1.02057	1.02817	1.01597	
May 12 2021	263.67506	1.02559	1.02081	1.02841	1.01621	
May 13 2021	263.73516	1.02583	1.02104	1.02864	1.01644	
May 14 2021	263.79526	1.02606	1.02127	1.02888	1.01667	
May 15 2021	263.85535	1.02630	1.02150	1.02911	1.01690	
May 16 2021	263.91545	1.02653	1.02174	1.02935	1.01713	
May 17 2021	263.97555	1.02676	1.02197	1.02958	1.01736	
May 18 2021	264.03565	1.02700	1.02220	1.02982	1.01760	
May 19 2021	264.09574	1.02723	1.02243	1.03005	1.01783	
May 20 2021	264.15584	1.02746	1.02267	1.03028	1.01806	
May 21 2021	264.21594	1.02770	1.02290	1.03052	1.01829	
May 22 2021	264.27603	1.02793	1.02313	1.03075	1.01852	
May 23 2021	264.33613	1.02817	1.02336	1.03099	1.01875	
May 24 2021	264.39623	1.02840	1.02360	1.03122	1.01899	
May 25 2021	264.45632	1.02863	1.02383	1.03146	1.01922	
May 26 2021	264.51642	1.02887	1.02406	1.03169	1.01945	
May 27 2021	264.57652	1.02910	1.02430	1.03192	1.01968	
May 28 2021	264.63661	1.02933	1.02453	1.03216	1.01991	
May 29 2021	264.69671	1.02957	1.02476	1.03239	1.02014	
May 30 2021	264.75681	1.02980	1.02499	1.03263	1.02038	
May 31 2021	264.81690	1.03004	1.02523	1.03286	1.02061	
CPI-U (NSA) for:			January 2021 261.582	February 2021 263.014	March 2021 264.877	

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

Security:			0-1/8% 10-Year TIPS	0-1/8% 30-Year TIPS		
Description:			Series A-2031	TIPS of February 2051		
CUSIP Number:			91282CBF7	912810SV1		
Dated Date:			January 15, 2021	February 15, 2021		
Original Issue Date:			January 29, 2021	February 26, 2021		
Additional Issue Date(s):			March 31, 2021			
Maturity Date:			January 15, 2031	February 15, 2051		
Ref CPI on Dated Date:			260.31619	260.35150		
Date			Ref CPI	Index Ratio	Index Ratio	
May	1	2021	263.01400	1.01036	1.01023	
May	2	2021	263.07410	1.01059	1.01046	
May	3	2021	263.13419	1.01083	1.01069	
May	4	2021	263.19429	1.01106	1.01092	
May	5	2021	263.25439	1.01129	1.01115	
May	6	2021	263.31448	1.01152	1.01138	
May	7	2021	263.37458	1.01175	1.01161	
May	8	2021	263.43468	1.01198	1.01184	
May	9	2021	263.49477	1.01221	1.01207	
May	10	2021	263.55487	1.01244	1.01230	
May	11	2021	263.61497	1.01267	1.01253	
May	12	2021	263.67506	1.01290	1.01277	
May	13	2021	263.73516	1.01313	1.01300	
May	14	2021	263.79526	1.01336	1.01323	
May	15	2021	263.85535	1.01360	1.01346	
May	16	2021	263.91545	1.01383	1.01369	
May	17	2021	263.97555	1.01406	1.01392	
May	18	2021	264.03565	1.01429	1.01415	
May	19	2021	264.09574	1.01452	1.01438	
May	20	2021	264.15584	1.01475	1.01461	
May	21	2021	264.21594	1.01498	1.01484	
May	22	2021	264.27603	1.01521	1.01507	
May	23	2021	264.33613	1.01544	1.01530	
May	24	2021	264.39623	1.01567	1.01554	
May	25	2021	264.45632	1.01590	1.01577	
May	26	2021	264.51642	1.01614	1.01600	
May	27	2021	264.57652	1.01637	1.01623	
May	28	2021	264.63661	1.01660	1.01646	
May	29	2021	264.69671	1.01683	1.01669	
May	30	2021	264.75681	1.01706	1.01692	
May	31	2021	264.81690	1.01729	1.01715	
CPI-U (NSA) for:			January 2021	261.582	February 2021	263.014
					March 2021	264.877