

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**April 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	
April 1 2021	261.58200	1.61730	1.59120	1.47370	1.38773	
April 2 2021	261.62973	1.61759	1.59149	1.47397	1.38798	
April 3 2021	261.67747	1.61789	1.59178	1.47424	1.38823	
April 4 2021	261.72520	1.61818	1.59207	1.47451	1.38849	
April 5 2021	261.77293	1.61848	1.59236	1.47478	1.38874	
April 6 2021	261.82067	1.61878	1.59265	1.47505	1.38899	
April 7 2021	261.86840	1.61907	1.59294	1.47531	1.38925	
April 8 2021	261.91613	1.61937	1.59323	1.47558	1.38950	
April 9 2021	261.96387	1.61966	1.59352	1.47585	1.38975	
April 10 2021	262.01160	1.61996	1.59381	1.47612	1.39001	
April 11 2021	262.05933	1.62025	1.59410	1.47639	1.39026	
April 12 2021	262.10707	1.62055	1.59439	1.47666	1.39051	
April 13 2021	262.15480	1.62084	1.59468	1.47693	1.39077	
April 14 2021	262.20253	1.62114	1.59497	1.47720	1.39102	
April 15 2021	262.25027	1.62143	1.59526	1.47747	1.39127	
April 16 2021	262.29800	1.62173	1.59555	1.47774	1.39153	
April 17 2021	262.34573	1.62202	1.59584	1.47800	1.39178	
April 18 2021	262.39347	1.62232	1.59613	1.47827	1.39203	
April 19 2021	262.44120	1.62261	1.59642	1.47854	1.39228	
April 20 2021	262.48893	1.62291	1.59671	1.47881	1.39254	
April 21 2021	262.53667	1.62320	1.59700	1.47908	1.39279	
April 22 2021	262.58440	1.62350	1.59729	1.47935	1.39304	
April 23 2021	262.63213	1.62379	1.59758	1.47962	1.39330	
April 24 2021	262.67987	1.62409	1.59787	1.47989	1.39355	
April 25 2021	262.72760	1.62438	1.59816	1.48016	1.39380	
April 26 2021	262.77533	1.62468	1.59845	1.48042	1.39406	
April 27 2021	262.82307	1.62497	1.59875	1.48069	1.39431	
April 28 2021	262.87080	1.62527	1.59904	1.48096	1.39456	
April 29 2021	262.91853	1.62556	1.59933	1.48123	1.39482	
April 30 2021	262.96627	1.62586	1.59962	1.48150	1.39507	
<b>CPI-U (NSA) for:</b>			<b>December 2020 260.474</b>	<b>January 2021 261.582</b>	<b>February 2021 263.014</b>	

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

<b>Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):</b>			<b>2% 20-Year TIPS TIPS of January 2026 912810FS2 January 15, 2006 January 31, 2006 July 31, 2006</b>	<b>2-3/8% 20-Year TIPS TIPS of January 2027 912810PS1 January 15, 2007 January 31, 2007 July 31, 2007</b>	<b>1-3/4% 20-Year TIPS TIPS of January 2028 912810PV4 January 15, 2008 January 31, 2008 July 31, 2008</b>	<b>2-1/2% 20-Year TIPS TIPS of January 2029 912810PZ5 January 15, 2009 January 30, 2009 July 31, 2009</b>	
<b>Maturity Date: Ref CPI on Dated Date:</b>			<b>January 15, 2026 198.47742</b>	<b>January 15, 2027 201.66452</b>	<b>January 15, 2028 209.49645</b>	<b>January 15, 2029 214.69971</b>	
<b>Date</b>			<b>Ref CPI</b>	<b>Index Ratio</b>	<b>Index Ratio</b>	<b>Index Ratio</b>	<b>Index Ratio</b>
April	1	2021	261.58200	1.31794	1.29711	1.24862	1.21836
April	2	2021	261.62973	1.31818	1.29735	1.24885	1.21858
April	3	2021	261.67747	1.31842	1.29759	1.24908	1.21881
April	4	2021	261.72520	1.31866	1.29782	1.24931	1.21903
April	5	2021	261.77293	1.31891	1.29806	1.24953	1.21925
April	6	2021	261.82067	1.31915	1.29830	1.24976	1.21947
April	7	2021	261.86840	1.31939	1.29853	1.24999	1.21970
April	8	2021	261.91613	1.31963	1.29877	1.25022	1.21992
April	9	2021	261.96387	1.31987	1.29901	1.25045	1.22014
April	10	2021	262.01160	1.32011	1.29924	1.25067	1.22036
April	11	2021	262.05933	1.32035	1.29948	1.25090	1.22059
April	12	2021	262.10707	1.32059	1.29972	1.25113	1.22081
April	13	2021	262.15480	1.32083	1.29995	1.25136	1.22103
April	14	2021	262.20253	1.32107	1.30019	1.25158	1.22125
April	15	2021	262.25027	1.32131	1.30043	1.25181	1.22147
April	16	2021	262.29800	1.32155	1.30067	1.25204	1.22170
April	17	2021	262.34573	1.32179	1.30090	1.25227	1.22192
April	18	2021	262.39347	1.32203	1.30114	1.25250	1.22214
April	19	2021	262.44120	1.32227	1.30138	1.25272	1.22236
April	20	2021	262.48893	1.32251	1.30161	1.25295	1.22259
April	21	2021	262.53667	1.32275	1.30185	1.25318	1.22281
April	22	2021	262.58440	1.32299	1.30209	1.25341	1.22303
April	23	2021	262.63213	1.32323	1.30232	1.25364	1.22325
April	24	2021	262.67987	1.32347	1.30256	1.25386	1.22348
April	25	2021	262.72760	1.32372	1.30280	1.25409	1.22370
April	26	2021	262.77533	1.32396	1.30303	1.25432	1.22392
April	27	2021	262.82307	1.32420	1.30327	1.25455	1.22414
April	28	2021	262.87080	1.32444	1.30351	1.25477	1.22436
April	29	2021	262.91853	1.32468	1.30374	1.25500	1.22459
April	30	2021	262.96627	1.32492	1.30398	1.25523	1.22481
<b>CPI-U (NSA) for:</b>			<b>December 2020 260.474</b>	<b>January 2021 261.582</b>	<b>February 2021 263.014</b>		

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

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	0-5/8% 10-Year TIPS Series D-2021 912828QV5 July 15, 2011 July 29, 2011 September 30, 2011 November 30, 2011	0-1/8% 10-Year TIPS Series A-2022 912828SA9 January 15, 2012 January 31, 2012 March 30, 2012 May 31, 2012
Maturity Date: Ref CPI on Dated Date:			February 15, 2040 216.13950	February 15, 2041 218.99100	July 15, 2021 225.38381	January 15, 2022 226.33474
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
April 1 2021	261.58200	1.21025	1.19449	1.16061	1.15573	
April 2 2021	261.62973	1.21047	1.19471	1.16082	1.15594	
April 3 2021	261.67747	1.21069	1.19492	1.16103	1.15615	
April 4 2021	261.72520	1.21091	1.19514	1.16124	1.15636	
April 5 2021	261.77293	1.21113	1.19536	1.16145	1.15657	
April 6 2021	261.82067	1.21135	1.19558	1.16167	1.15679	
April 7 2021	261.86840	1.21157	1.19580	1.16188	1.15700	
April 8 2021	261.91613	1.21179	1.19601	1.16209	1.15721	
April 9 2021	261.96387	1.21201	1.19623	1.16230	1.15742	
April 10 2021	262.01160	1.21223	1.19645	1.16251	1.15763	
April 11 2021	262.05933	1.21245	1.19667	1.16272	1.15784	
April 12 2021	262.10707	1.21268	1.19689	1.16294	1.15805	
April 13 2021	262.15480	1.21290	1.19710	1.16315	1.15826	
April 14 2021	262.20253	1.21312	1.19732	1.16336	1.15847	
April 15 2021	262.25027	1.21334	1.19754	1.16357	1.15868	
April 16 2021	262.29800	1.21356	1.19776	1.16378	1.15889	
April 17 2021	262.34573	1.21378	1.19797	1.16400	1.15911	
April 18 2021	262.39347	1.21400	1.19819	1.16421	1.15932	
April 19 2021	262.44120	1.21422	1.19841	1.16442	1.15953	
April 20 2021	262.48893	1.21444	1.19863	1.16463	1.15974	
April 21 2021	262.53667	1.21466	1.19885	1.16484	1.15995	
April 22 2021	262.58440	1.21488	1.19906	1.16505	1.16016	
April 23 2021	262.63213	1.21510	1.19928	1.16527	1.16037	
April 24 2021	262.67987	1.21533	1.19950	1.16548	1.16058	
April 25 2021	262.72760	1.21555	1.19972	1.16569	1.16079	
April 26 2021	262.77533	1.21577	1.19994	1.16590	1.16100	
April 27 2021	262.82307	1.21599	1.20015	1.16611	1.16121	
April 28 2021	262.87080	1.21621	1.20037	1.16633	1.16142	
April 29 2021	262.91853	1.21643	1.20059	1.16654	1.16164	
April 30 2021	262.96627	1.21665	1.20081	1.16675	1.16185	
<b>CPI-U (NSA) for:</b>	<b>December 2020</b>	<b>260.474</b>	<b>January 2021</b>	<b>261.582</b>	<b>February 2021</b>	<b>263.014</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**April 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	
April 1 2021	261.58200	1.15764	1.13750	1.13326	1.13775	
April 2 2021	261.62973	1.15786	1.13770	1.13347	1.13796	
April 3 2021	261.67747	1.15807	1.13791	1.13368	1.13817	
April 4 2021	261.72520	1.15828	1.13812	1.13388	1.13838	
April 5 2021	261.77293	1.15849	1.13833	1.13409	1.13858	
April 6 2021	261.82067	1.15870	1.13853	1.13430	1.13879	
April 7 2021	261.86840	1.15891	1.13874	1.13450	1.13900	
April 8 2021	261.91613	1.15912	1.13895	1.13471	1.13921	
April 9 2021	261.96387	1.15933	1.13916	1.13492	1.13941	
April 10 2021	262.01160	1.15955	1.13936	1.13512	1.13962	
April 11 2021	262.05933	1.15976	1.13957	1.13533	1.13983	
April 12 2021	262.10707	1.15997	1.13978	1.13554	1.14004	
April 13 2021	262.15480	1.16018	1.13999	1.13574	1.14024	
April 14 2021	262.20253	1.16039	1.14019	1.13595	1.14045	
April 15 2021	262.25027	1.16060	1.14040	1.13616	1.14066	
April 16 2021	262.29800	1.16081	1.14061	1.13636	1.14087	
April 17 2021	262.34573	1.16102	1.14082	1.13657	1.14108	
April 18 2021	262.39347	1.16124	1.14102	1.13678	1.14128	
April 19 2021	262.44120	1.16145	1.14123	1.13699	1.14149	
April 20 2021	262.48893	1.16166	1.14144	1.13719	1.14170	
April 21 2021	262.53667	1.16187	1.14165	1.13740	1.14191	
April 22 2021	262.58440	1.16208	1.14185	1.13761	1.14211	
April 23 2021	262.63213	1.16229	1.14206	1.13781	1.14232	
April 24 2021	262.67987	1.16250	1.14227	1.13802	1.14253	
April 25 2021	262.72760	1.16271	1.14248	1.13823	1.14274	
April 26 2021	262.77533	1.16293	1.14268	1.13843	1.14294	
April 27 2021	262.82307	1.16314	1.14289	1.13864	1.14315	
April 28 2021	262.87080	1.16335	1.14310	1.13885	1.14336	
April 29 2021	262.91853	1.16356	1.14331	1.13905	1.14357	
April 30 2021	262.96627	1.16377	1.14352	1.13926	1.14377	
<b>CPI-U (NSA) for:</b>	<b>December 2020</b>	<b>260.474</b>	<b>January 2021</b>	<b>261.582</b>	<b>February 2021</b>	<b>263.014</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**April 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	
April 1 2021	261.58200	1.12403	1.12108	1.12239	1.10165	
April 2 2021	261.62973	1.12424	1.12128	1.12259	1.10185	
April 3 2021	261.67747	1.12444	1.12149	1.12279	1.10205	
April 4 2021	261.72520	1.12465	1.12169	1.12300	1.10225	
April 5 2021	261.77293	1.12485	1.12190	1.12320	1.10245	
April 6 2021	261.82067	1.12506	1.12210	1.12341	1.10265	
April 7 2021	261.86840	1.12526	1.12231	1.12361	1.10285	
April 8 2021	261.91613	1.12547	1.12251	1.12382	1.10306	
April 9 2021	261.96387	1.12567	1.12272	1.12402	1.10326	
April 10 2021	262.01160	1.12588	1.12292	1.12423	1.10346	
April 11 2021	262.05933	1.12608	1.12312	1.12443	1.10366	
April 12 2021	262.10707	1.12629	1.12333	1.12464	1.10386	
April 13 2021	262.15480	1.12649	1.12353	1.12484	1.10406	
April 14 2021	262.20253	1.12670	1.12374	1.12505	1.10426	
April 15 2021	262.25027	1.12690	1.12394	1.12525	1.10446	
April 16 2021	262.29800	1.12711	1.12415	1.12546	1.10466	
April 17 2021	262.34573	1.12731	1.12435	1.12566	1.10487	
April 18 2021	262.39347	1.12752	1.12456	1.12587	1.10507	
April 19 2021	262.44120	1.12772	1.12476	1.12607	1.10527	
April 20 2021	262.48893	1.12793	1.12497	1.12628	1.10547	
April 21 2021	262.53667	1.12813	1.12517	1.12648	1.10567	
April 22 2021	262.58440	1.12834	1.12537	1.12669	1.10587	
April 23 2021	262.63213	1.12854	1.12558	1.12689	1.10607	
April 24 2021	262.67987	1.12875	1.12578	1.12710	1.10627	
April 25 2021	262.72760	1.12895	1.12599	1.12730	1.10647	
April 26 2021	262.77533	1.12916	1.12619	1.12751	1.10667	
April 27 2021	262.82307	1.12936	1.12640	1.12771	1.10688	
April 28 2021	262.87080	1.12957	1.12660	1.12792	1.10708	
April 29 2021	262.91853	1.12977	1.12681	1.12812	1.10728	
April 30 2021	262.96627	1.12998	1.12701	1.12832	1.10748	
<b>CPI-U (NSA) for:</b>	<b>December 2020</b>	<b>260.474</b>	<b>January 2021</b>	<b>261.582</b>	<b>February 2021</b>	<b>263.014</b>

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**April 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	
April 1 2021	261.58200	1.10440	1.11084	1.10305	1.10088	
April 2 2021	261.62973	1.10460	1.11104	1.10325	1.10108	
April 3 2021	261.67747	1.10480	1.11124	1.10346	1.10128	
April 4 2021	261.72520	1.10501	1.11145	1.10366	1.10148	
April 5 2021	261.77293	1.10521	1.11165	1.10386	1.10169	
April 6 2021	261.82067	1.10541	1.11185	1.10406	1.10189	
April 7 2021	261.86840	1.10561	1.11206	1.10426	1.10209	
April 8 2021	261.91613	1.10581	1.11226	1.10446	1.10229	
April 9 2021	261.96387	1.10601	1.11246	1.10466	1.10249	
April 10 2021	262.01160	1.10622	1.11266	1.10486	1.10269	
April 11 2021	262.05933	1.10642	1.11287	1.10507	1.10289	
April 12 2021	262.10707	1.10662	1.11307	1.10527	1.10309	
April 13 2021	262.15480	1.10682	1.11327	1.10547	1.10329	
April 14 2021	262.20253	1.10702	1.11347	1.10567	1.10349	
April 15 2021	262.25027	1.10722	1.11368	1.10587	1.10369	
April 16 2021	262.29800	1.10742	1.11388	1.10607	1.10390	
April 17 2021	262.34573	1.10763	1.11408	1.10627	1.10410	
April 18 2021	262.39347	1.10783	1.11428	1.10647	1.10430	
April 19 2021	262.44120	1.10803	1.11449	1.10668	1.10450	
April 20 2021	262.48893	1.10823	1.11469	1.10688	1.10470	
April 21 2021	262.53667	1.10843	1.11489	1.10708	1.10490	
April 22 2021	262.58440	1.10863	1.11510	1.10728	1.10510	
April 23 2021	262.63213	1.10884	1.11530	1.10748	1.10530	
April 24 2021	262.67987	1.10904	1.11550	1.10768	1.10550	
April 25 2021	262.72760	1.10924	1.11570	1.10788	1.10570	
April 26 2021	262.77533	1.10944	1.11591	1.10809	1.10590	
April 27 2021	262.82307	1.10964	1.11611	1.10829	1.10611	
April 28 2021	262.87080	1.10984	1.11631	1.10849	1.10631	
April 29 2021	262.91853	1.11004	1.11651	1.10869	1.10651	
April 30 2021	262.96627	1.11025	1.11672	1.10889	1.10671	
<b>CPI-U (NSA) for:</b>			<b>December 2020 260.474</b>	<b>January 2021 261.582</b>	<b>February 2021 263.014</b>	

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**April 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% 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	0-3/8% 10-Year TIPS Series A-2027 912828V49 January 15, 2017 January 31, 2017 March 31, 2017 May 31, 2017
Maturity Date: Ref CPI on Dated Date:			February 15, 2046 236.94448	April 15, 2021 237.00700	July 15, 2026 239.70132	January 15, 2027 241.55919
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
April 1 2021	261.58200	1.10398	1.10369	1.09128	1.08289	
April 2 2021	261.62973	1.10418	1.10389	1.09148	1.08309	
April 3 2021	261.67747	1.10438	1.10409	1.09168	1.08329	
April 4 2021	261.72520	1.10458	1.10429	1.09188	1.08348	
April 5 2021	261.77293	1.10479	1.10449	1.09208	1.08368	
April 6 2021	261.82067	1.10499	1.10470	1.09228	1.08388	
April 7 2021	261.86840	1.10519	1.10490	1.09248	1.08408	
April 8 2021	261.91613	1.10539	1.10510	1.09268	1.08427	
April 9 2021	261.96387	1.10559	1.10530	1.09288	1.08447	
April 10 2021	262.01160	1.10579	1.10550	1.09308	1.08467	
April 11 2021	262.05933	1.10599	1.10570	1.09327	1.08487	
April 12 2021	262.10707	1.10620	1.10590	1.09347	1.08506	
April 13 2021	262.15480	1.10640	1.10611	1.09367	1.08526	
April 14 2021	262.20253	1.10660	1.10631	1.09387	1.08546	
April 15 2021	262.25027	1.10680	1.10651	1.09407	1.08566	
April 16 2021	262.29800	1.10700		1.09427	1.08585	
April 17 2021	262.34573	1.10720		1.09447	1.08605	
April 18 2021	262.39347	1.10740		1.09467	1.08625	
April 19 2021	262.44120	1.10761		1.09487	1.08645	
April 20 2021	262.48893	1.10781		1.09507	1.08664	
April 21 2021	262.53667	1.10801		1.09527	1.08684	
April 22 2021	262.58440	1.10821		1.09546	1.08704	
April 23 2021	262.63213	1.10841		1.09566	1.08724	
April 24 2021	262.67987	1.10861		1.09586	1.08743	
April 25 2021	262.72760	1.10882		1.09606	1.08763	
April 26 2021	262.77533	1.10902		1.09626	1.08783	
April 27 2021	262.82307	1.10922		1.09646	1.08803	
April 28 2021	262.87080	1.10942		1.09666	1.08823	
April 29 2021	262.91853	1.10962		1.09686	1.08842	
April 30 2021	262.96627	1.10982		1.09706	1.08862	
<b>CPI-U (NSA) for:</b>	<b>December 2020</b>	<b>260.474</b>	<b>January 2021</b>	<b>261.582</b>	<b>February 2021</b>	<b>263.014</b>

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-7/8% 30-Year TIPS TIPS of February 2047 912810RW0 February 15, 2017 February 28, 2017 June 30, 2017 October 31, 2017	0-1/8% 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
Maturity Date: Ref CPI on Dated Date:			February 15, 2047 241.39250	April 15, 2022 243.19553	July 15, 2027 244.61839	January 15, 2028 246.66571
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
April 1 2021	261.58200	1.08364	1.07560	1.06935	1.06047	
April 2 2021	261.62973	1.08384	1.07580	1.06954	1.06067	
April 3 2021	261.67747	1.08403	1.07600	1.06974	1.06086	
April 4 2021	261.72520	1.08423	1.07619	1.06993	1.06105	
April 5 2021	261.77293	1.08443	1.07639	1.07013	1.06125	
April 6 2021	261.82067	1.08463	1.07659	1.07032	1.06144	
April 7 2021	261.86840	1.08482	1.07678	1.07052	1.06163	
April 8 2021	261.91613	1.08502	1.07698	1.07071	1.06183	
April 9 2021	261.96387	1.08522	1.07717	1.07091	1.06202	
April 10 2021	262.01160	1.08542	1.07737	1.07110	1.06221	
April 11 2021	262.05933	1.08562	1.07757	1.07130	1.06241	
April 12 2021	262.10707	1.08581	1.07776	1.07149	1.06260	
April 13 2021	262.15480	1.08601	1.07796	1.07169	1.06279	
April 14 2021	262.20253	1.08621	1.07816	1.07188	1.06299	
April 15 2021	262.25027	1.08641	1.07835	1.07208	1.06318	
April 16 2021	262.29800	1.08660	1.07855	1.07227	1.06337	
April 17 2021	262.34573	1.08680	1.07874	1.07247	1.06357	
April 18 2021	262.39347	1.08700	1.07894	1.07266	1.06376	
April 19 2021	262.44120	1.08720	1.07914	1.07286	1.06395	
April 20 2021	262.48893	1.08739	1.07933	1.07305	1.06415	
April 21 2021	262.53667	1.08759	1.07953	1.07325	1.06434	
April 22 2021	262.58440	1.08779	1.07973	1.07345	1.06454	
April 23 2021	262.63213	1.08799	1.07992	1.07364	1.06473	
April 24 2021	262.67987	1.08819	1.08012	1.07384	1.06492	
April 25 2021	262.72760	1.08838	1.08031	1.07403	1.06512	
April 26 2021	262.77533	1.08858	1.08051	1.07423	1.06531	
April 27 2021	262.82307	1.08878	1.08071	1.07442	1.06550	
April 28 2021	262.87080	1.08898	1.08090	1.07462	1.06570	
April 29 2021	262.91853	1.08917	1.08110	1.07481	1.06589	
April 30 2021	262.96627	1.08937	1.08130	1.07501	1.06608	
<b>CPI-U (NSA) for:</b>	<b>December 2020</b>	<b>260.474</b>	<b>January 2021</b>	<b>261.582</b>	<b>February 2021</b>	<b>263.014</b>



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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-7/8% 10-Year TIPS Series A-2029 9128285W6 January 15, 2019 January 31, 2019 March 29, 2019 May 31, 2019
Maturity Date: Ref CPI on Dated Date:			February 15, 2048 246.59650	April 15, 2023 248.39153	July 15, 2028 251.01658	January 15, 2029 252.50248
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
April 1 2021	261.58200	1.06077	1.05310	1.04209	1.03596	
April 2 2021	261.62973	1.06096	1.05330	1.04228	1.03615	
April 3 2021	261.67747	1.06116	1.05349	1.04247	1.03634	
April 4 2021	261.72520	1.06135	1.05368	1.04266	1.03653	
April 5 2021	261.77293	1.06154	1.05387	1.04285	1.03671	
April 6 2021	261.82067	1.06174	1.05406	1.04304	1.03690	
April 7 2021	261.86840	1.06193	1.05426	1.04323	1.03709	
April 8 2021	261.91613	1.06212	1.05445	1.04342	1.03728	
April 9 2021	261.96387	1.06232	1.05464	1.04361	1.03747	
April 10 2021	262.01160	1.06251	1.05483	1.04380	1.03766	
April 11 2021	262.05933	1.06270	1.05503	1.04399	1.03785	
April 12 2021	262.10707	1.06290	1.05522	1.04418	1.03804	
April 13 2021	262.15480	1.06309	1.05541	1.04437	1.03823	
April 14 2021	262.20253	1.06329	1.05560	1.04456	1.03842	
April 15 2021	262.25027	1.06348	1.05579	1.04475	1.03860	
April 16 2021	262.29800	1.06367	1.05599	1.04494	1.03879	
April 17 2021	262.34573	1.06387	1.05618	1.04513	1.03898	
April 18 2021	262.39347	1.06406	1.05637	1.04532	1.03917	
April 19 2021	262.44120	1.06425	1.05656	1.04551	1.03936	
April 20 2021	262.48893	1.06445	1.05675	1.04570	1.03955	
April 21 2021	262.53667	1.06464	1.05695	1.04589	1.03974	
April 22 2021	262.58440	1.06483	1.05714	1.04608	1.03993	
April 23 2021	262.63213	1.06503	1.05733	1.04627	1.04012	
April 24 2021	262.67987	1.06522	1.05752	1.04646	1.04031	
April 25 2021	262.72760	1.06541	1.05772	1.04665	1.04050	
April 26 2021	262.77533	1.06561	1.05791	1.04684	1.04068	
April 27 2021	262.82307	1.06580	1.05810	1.04703	1.04087	
April 28 2021	262.87080	1.06600	1.05829	1.04722	1.04106	
April 29 2021	262.91853	1.06619	1.05848	1.04741	1.04125	
April 30 2021	262.96627	1.06638	1.05868	1.04761	1.04144	
<b>CPI-U (NSA) for:</b>	<b>December 2020</b>	<b>260.474</b>	<b>January 2021</b>	<b>261.582</b>	<b>February 2021</b>	<b>263.014</b>

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			1% 30-Year TIPS TIPS of February 2049 912810SG4 February 15, 2019 February 28, 2019 August 30, 2019	0-1/2% 5-Year TIPS Series X-2024 9128286N5 April 15, 2019 April 30, 2019 June 28, 2019	0-1/4% 10-Year TIPS Series D-2029 9128287D6 July 15, 2019 July 31, 2019 September 30, 2019 November 29, 2019	0-1/8% 5-Year TIPS Series AE-2024 912828YL8 October 15, 2019 October 31, 2019 December 31, 2019
Maturity Date: Ref CPI on Dated Date:			February 15, 2049 251.63550	April 15, 2024 252.20853	July 15, 2029 255.79368	October 15, 2024 256.56513
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
April 1 2021	261.58200	1.03953	1.03717	1.02263	1.01955	
April 2 2021	261.62973	1.03972	1.03735	1.02282	1.01974	
April 3 2021	261.67747	1.03991	1.03754	1.02300	1.01993	
April 4 2021	261.72520	1.04010	1.03773	1.02319	1.02011	
April 5 2021	261.77293	1.04029	1.03792	1.02338	1.02030	
April 6 2021	261.82067	1.04048	1.03811	1.02356	1.02048	
April 7 2021	261.86840	1.04067	1.03830	1.02375	1.02067	
April 8 2021	261.91613	1.04086	1.03849	1.02394	1.02086	
April 9 2021	261.96387	1.04104	1.03868	1.02412	1.02104	
April 10 2021	262.01160	1.04123	1.03887	1.02431	1.02123	
April 11 2021	262.05933	1.04142	1.03906	1.02449	1.02141	
April 12 2021	262.10707	1.04161	1.03925	1.02468	1.02160	
April 13 2021	262.15480	1.04180	1.03944	1.02487	1.02179	
April 14 2021	262.20253	1.04199	1.03963	1.02505	1.02197	
April 15 2021	262.25027	1.04218	1.03982	1.02524	1.02216	
April 16 2021	262.29800	1.04237	1.04000	1.02543	1.02234	
April 17 2021	262.34573	1.04256	1.04019	1.02561	1.02253	
April 18 2021	262.39347	1.04275	1.04038	1.02580	1.02272	
April 19 2021	262.44120	1.04294	1.04057	1.02599	1.02290	
April 20 2021	262.48893	1.04313	1.04076	1.02617	1.02309	
April 21 2021	262.53667	1.04332	1.04095	1.02636	1.02327	
April 22 2021	262.58440	1.04351	1.04114	1.02655	1.02346	
April 23 2021	262.63213	1.04370	1.04133	1.02673	1.02365	
April 24 2021	262.67987	1.04389	1.04152	1.02692	1.02383	
April 25 2021	262.72760	1.04408	1.04171	1.02711	1.02402	
April 26 2021	262.77533	1.04427	1.04190	1.02729	1.02421	
April 27 2021	262.82307	1.04446	1.04209	1.02748	1.02439	
April 28 2021	262.87080	1.04465	1.04228	1.02767	1.02458	
April 29 2021	262.91853	1.04484	1.04246	1.02785	1.02476	
April 30 2021	262.96627	1.04503	1.04265	1.02804	1.02495	
<b>CPI-U (NSA) for:</b>	<b>December 2020</b>	<b>260.474</b>	<b>January 2021</b>	<b>261.582</b>	<b>February 2021</b>	<b>263.014</b>

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/8% 10-Year TIPS Series A-2030 912828Z37 January 15, 2020 January 31, 2020 March 31, 2020 May 29, 2020	0-1/4% 30-Year TIPS TIPS of February 2050 912810SM1 February 15, 2020 February 28, 2020 August 31, 2020	0-1/8% 5-Year TIPS Series X-2025 912828ZJ2 April 15, 2020 April 30, 2020 June 30, 2020 July 13, 2020	0-1/8% 10-Year TIPS Series D-2030 912828ZZ6 July 15, 2020 July 31, 2020 September 30, 2020 November 30, 2020
Maturity Date: Ref CPI on Dated Date:			January 15, 2030 257.28368	February 15, 2050 257.09503	April 15, 2025 258.30093	July 15, 2030 256.39126
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
April 1 2021	261.58200	1.01671	1.01745	1.01270	1.02025	
April 2 2021	261.62973	1.01689	1.01764	1.01289	1.02043	
April 3 2021	261.67747	1.01708	1.01782	1.01307	1.02062	
April 4 2021	261.72520	1.01726	1.01801	1.01326	1.02080	
April 5 2021	261.77293	1.01745	1.01820	1.01344	1.02099	
April 6 2021	261.82067	1.01763	1.01838	1.01363	1.02118	
April 7 2021	261.86840	1.01782	1.01857	1.01381	1.02136	
April 8 2021	261.91613	1.01801	1.01875	1.01400	1.02155	
April 9 2021	261.96387	1.01819	1.01894	1.01418	1.02173	
April 10 2021	262.01160	1.01838	1.01912	1.01437	1.02192	
April 11 2021	262.05933	1.01856	1.01931	1.01455	1.02211	
April 12 2021	262.10707	1.01875	1.01949	1.01474	1.02229	
April 13 2021	262.15480	1.01893	1.01968	1.01492	1.02248	
April 14 2021	262.20253	1.01912	1.01987	1.01510	1.02267	
April 15 2021	262.25027	1.01930	1.02005	1.01529	1.02285	
April 16 2021	262.29800	1.01949	1.02024	1.01547	1.02304	
April 17 2021	262.34573	1.01967	1.02042	1.01566	1.02322	
April 18 2021	262.39347	1.01986	1.02061	1.01584	1.02341	
April 19 2021	262.44120	1.02005	1.02079	1.01603	1.02360	
April 20 2021	262.48893	1.02023	1.02098	1.01621	1.02378	
April 21 2021	262.53667	1.02042	1.02117	1.01640	1.02397	
April 22 2021	262.58440	1.02060	1.02135	1.01658	1.02416	
April 23 2021	262.63213	1.02079	1.02154	1.01677	1.02434	
April 24 2021	262.67987	1.02097	1.02172	1.01695	1.02453	
April 25 2021	262.72760	1.02116	1.02191	1.01714	1.02471	
April 26 2021	262.77533	1.02134	1.02209	1.01732	1.02490	
April 27 2021	262.82307	1.02153	1.02228	1.01751	1.02509	
April 28 2021	262.87080	1.02172	1.02247	1.01769	1.02527	
April 29 2021	262.91853	1.02190	1.02265	1.01788	1.02546	
April 30 2021	262.96627	1.02209	1.02284	1.01806	1.02564	
<b>CPI-U (NSA) for:</b>	<b>December 2020</b>	<b>260.474</b>	<b>January 2021</b>	<b>261.582</b>	<b>February 2021</b>	<b>263.014</b>

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/8% 5-Year TIPS Series AE-2025 91282CAQ4 October 15, 2020 October 30, 2020 December 31, 2020	0-1/8% 10-Year TIPS Series A-2031 91282CBF7 January 15, 2021 January 29, 2021	0-1/8% 30-Year TIPS TIPS of February 2051 912810SV1 February 15, 2021 February 26, 2021	
Maturity Date: Ref CPI on Dated Date:			October 15, 2025 259.46997	January 15, 2031 260.31619	February 15, 2051 260.35150	
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio		
April 1 2021	261.58200	1.00814	1.00486	1.00473		
April 2 2021	261.62973	1.00832	1.00505	1.00491		
April 3 2021	261.67747	1.00851	1.00523	1.00509		
April 4 2021	261.72520	1.00869	1.00541	1.00528		
April 5 2021	261.77293	1.00888	1.00560	1.00546		
April 6 2021	261.82067	1.00906	1.00578	1.00564		
April 7 2021	261.86840	1.00924	1.00596	1.00583		
April 8 2021	261.91613	1.00943	1.00615	1.00601		
April 9 2021	261.96387	1.00961	1.00633	1.00619		
April 10 2021	262.01160	1.00980	1.00651	1.00638		
April 11 2021	262.05933	1.00998	1.00670	1.00656		
April 12 2021	262.10707	1.01016	1.00688	1.00674		
April 13 2021	262.15480	1.01035	1.00706	1.00693		
April 14 2021	262.20253	1.01053	1.00725	1.00711		
April 15 2021	262.25027	1.01072	1.00743	1.00729		
April 16 2021	262.29800	1.01090	1.00761	1.00748		
April 17 2021	262.34573	1.01108	1.00780	1.00766		
April 18 2021	262.39347	1.01127	1.00798	1.00784		
April 19 2021	262.44120	1.01145	1.00816	1.00803		
April 20 2021	262.48893	1.01164	1.00835	1.00821		
April 21 2021	262.53667	1.01182	1.00853	1.00839		
April 22 2021	262.58440	1.01200	1.00871	1.00858		
April 23 2021	262.63213	1.01219	1.00890	1.00876		
April 24 2021	262.67987	1.01237	1.00908	1.00894		
April 25 2021	262.72760	1.01255	1.00926	1.00913		
April 26 2021	262.77533	1.01274	1.00945	1.00931		
April 27 2021	262.82307	1.01292	1.00963	1.00949		
April 28 2021	262.87080	1.01311	1.00981	1.00968		
April 29 2021	262.91853	1.01329	1.01000	1.00986		
April 30 2021	262.96627	1.01347	1.01018	1.01004		
<b>CPI-U (NSA) for:</b>	<b>December 2020</b>	<b>260.474</b>	<b>January 2021</b>	<b>261.582</b>	<b>February 2021</b>	<b>263.014</b>