

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
March 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	
March 1 2023	296.79700	1.83503	1.80541	1.67210	1.57455	
March 2 2023	296.87355	1.83550	1.80587	1.67253	1.57495	
March 3 2023	296.95010	1.83597	1.80634	1.67296	1.57536	
March 4 2023	297.02665	1.83645	1.80680	1.67339	1.57577	
March 5 2023	297.10319	1.83692	1.80727	1.67382	1.57617	
March 6 2023	297.17974	1.83739	1.80774	1.67425	1.57658	
March 7 2023	297.25629	1.83787	1.80820	1.67468	1.57698	
March 8 2023	297.33284	1.83834	1.80867	1.67511	1.57739	
March 9 2023	297.40939	1.83881	1.80913	1.67555	1.57780	
March 10 2023	297.48594	1.83928	1.80960	1.67598	1.57820	
March 11 2023	297.56248	1.83976	1.81006	1.67641	1.57861	
March 12 2023	297.63903	1.84023	1.81053	1.67684	1.57901	
March 13 2023	297.71558	1.84070	1.81100	1.67727	1.57942	
March 14 2023	297.79213	1.84118	1.81146	1.67770	1.57983	
March 15 2023	297.86868	1.84165	1.81193	1.67813	1.58023	
March 16 2023	297.94523	1.84212	1.81239	1.67856	1.58064	
March 17 2023	298.02177	1.84260	1.81286	1.67900	1.58104	
March 18 2023	298.09832	1.84307	1.81332	1.67943	1.58145	
March 19 2023	298.17487	1.84354	1.81379	1.67986	1.58186	
March 20 2023	298.25142	1.84402	1.81425	1.68029	1.58226	
March 21 2023	298.32797	1.84449	1.81472	1.68072	1.58267	
March 22 2023	298.40452	1.84496	1.81519	1.68115	1.58307	
March 23 2023	298.48106	1.84544	1.81565	1.68158	1.58348	
March 24 2023	298.55761	1.84591	1.81612	1.68201	1.58389	
March 25 2023	298.63416	1.84638	1.81658	1.68245	1.58429	
March 26 2023	298.71071	1.84686	1.81705	1.68288	1.58470	
March 27 2023	298.78726	1.84733	1.81751	1.68331	1.58511	
March 28 2023	298.86381	1.84780	1.81798	1.68374	1.58551	
March 29 2023	298.94035	1.84828	1.81845	1.68417	1.58592	
March 30 2023	299.01690	1.84875	1.81891	1.68460	1.58632	
March 31 2023	299.09345	1.84922	1.81938	1.68503	1.58673	
CPI-U (NSA) for:			November 2022 297.711	December 2022 296.797	January 2023 299.170	

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% 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	
March 1 2023	296.79700	1.49537	1.47174	1.41672	1.38238	
March 2 2023	296.87355	1.49575	1.47212	1.41708	1.38274	
March 3 2023	296.95010	1.49614	1.47250	1.41745	1.38310	
March 4 2023	297.02665	1.49653	1.47288	1.41781	1.38345	
March 5 2023	297.10319	1.49691	1.47325	1.41818	1.38381	
March 6 2023	297.17974	1.49730	1.47363	1.41854	1.38416	
March 7 2023	297.25629	1.49768	1.47401	1.41891	1.38452	
March 8 2023	297.33284	1.49807	1.47439	1.41927	1.38488	
March 9 2023	297.40939	1.49845	1.47477	1.41964	1.38523	
March 10 2023	297.48594	1.49884	1.47515	1.42000	1.38559	
March 11 2023	297.56248	1.49923	1.47553	1.42037	1.38595	
March 12 2023	297.63903	1.49961	1.47591	1.42074	1.38630	
March 13 2023	297.71558	1.50000	1.47629	1.42110	1.38666	
March 14 2023	297.79213	1.50038	1.47667	1.42147	1.38702	
March 15 2023	297.86868	1.50077	1.47705	1.42183	1.38737	
March 16 2023	297.94523	1.50115	1.47743	1.42220	1.38773	
March 17 2023	298.02177	1.50154	1.47781	1.42256	1.38809	
March 18 2023	298.09832	1.50193	1.47819	1.42293	1.38844	
March 19 2023	298.17487	1.50231	1.47857	1.42329	1.38880	
March 20 2023	298.25142	1.50270	1.47895	1.42366	1.38916	
March 21 2023	298.32797	1.50308	1.47933	1.42402	1.38951	
March 22 2023	298.40452	1.50347	1.47971	1.42439	1.38987	
March 23 2023	298.48106	1.50385	1.48009	1.42475	1.39023	
March 24 2023	298.55761	1.50424	1.48047	1.42512	1.39058	
March 25 2023	298.63416	1.50463	1.48085	1.42549	1.39094	
March 26 2023	298.71071	1.50501	1.48123	1.42585	1.39130	
March 27 2023	298.78726	1.50540	1.48161	1.42622	1.39165	
March 28 2023	298.86381	1.50578	1.48199	1.42658	1.39201	
March 29 2023	298.94035	1.50617	1.48236	1.42695	1.39236	
March 30 2023	299.01690	1.50655	1.48274	1.42731	1.39272	
March 31 2023	299.09345	1.50694	1.48312	1.42768	1.39308	
CPI-U (NSA) for:			November 2022 297.711	December 2022 296.797	January 2023 299.170	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
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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	
March 1 2023	296.79700	1.37317	1.35529	1.31349	1.29092	
March 2 2023	296.87355	1.37353	1.35564	1.31383	1.29125	
March 3 2023	296.95010	1.37388	1.35599	1.31417	1.29159	
March 4 2023	297.02665	1.37424	1.35634	1.31451	1.29192	
March 5 2023	297.10319	1.37459	1.35669	1.31484	1.29225	
March 6 2023	297.17974	1.37494	1.35704	1.31518	1.29259	
March 7 2023	297.25629	1.37530	1.35739	1.31552	1.29292	
March 8 2023	297.33284	1.37565	1.35774	1.31586	1.29325	
March 9 2023	297.40939	1.37601	1.35809	1.31620	1.29358	
March 10 2023	297.48594	1.37636	1.35844	1.31654	1.29392	
March 11 2023	297.56248	1.37671	1.35879	1.31688	1.29425	
March 12 2023	297.63903	1.37707	1.35914	1.31722	1.29458	
March 13 2023	297.71558	1.37742	1.35949	1.31756	1.29492	
March 14 2023	297.79213	1.37778	1.35984	1.31789	1.29525	
March 15 2023	297.86868	1.37813	1.36019	1.31823	1.29558	
March 16 2023	297.94523	1.37849	1.36054	1.31857	1.29592	
March 17 2023	298.02177	1.37884	1.36089	1.31891	1.29625	
March 18 2023	298.09832	1.37919	1.36124	1.31925	1.29658	
March 19 2023	298.17487	1.37955	1.36159	1.31959	1.29691	
March 20 2023	298.25142	1.37990	1.36193	1.31993	1.29725	
March 21 2023	298.32797	1.38026	1.36228	1.32027	1.29758	
March 22 2023	298.40452	1.38061	1.36263	1.32060	1.29791	
March 23 2023	298.48106	1.38096	1.36298	1.32094	1.29825	
March 24 2023	298.55761	1.38132	1.36333	1.32128	1.29858	
March 25 2023	298.63416	1.38167	1.36368	1.32162	1.29891	
March 26 2023	298.71071	1.38203	1.36403	1.32196	1.29924	
March 27 2023	298.78726	1.38238	1.36438	1.32230	1.29958	
March 28 2023	298.86381	1.38274	1.36473	1.32264	1.29991	
March 29 2023	298.94035	1.38309	1.36508	1.32298	1.30024	
March 30 2023	299.01690	1.38344	1.36543	1.32331	1.30058	
March 31 2023	299.09345	1.38380	1.36578	1.32365	1.30091	
CPI-U (NSA) for:			November 2022 297.711	December 2022 296.797	January 2023 299.170	

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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	
March 1 2023	296.79700	1.27535	1.27200	1.27348	1.24996	
March 2 2023	296.87355	1.27568	1.27233	1.27381	1.25028	
March 3 2023	296.95010	1.27601	1.27266	1.27414	1.25060	
March 4 2023	297.02665	1.27634	1.27299	1.27447	1.25092	
March 5 2023	297.10319	1.27667	1.27331	1.27480	1.25125	
March 6 2023	297.17974	1.27700	1.27364	1.27513	1.25157	
March 7 2023	297.25629	1.27732	1.27397	1.27546	1.25189	
March 8 2023	297.33284	1.27765	1.27430	1.27578	1.25221	
March 9 2023	297.40939	1.27798	1.27463	1.27611	1.25254	
March 10 2023	297.48594	1.27831	1.27495	1.27644	1.25286	
March 11 2023	297.56248	1.27864	1.27528	1.27677	1.25318	
March 12 2023	297.63903	1.27897	1.27561	1.27710	1.25350	
March 13 2023	297.71558	1.27930	1.27594	1.27743	1.25382	
March 14 2023	297.79213	1.27963	1.27627	1.27775	1.25415	
March 15 2023	297.86868	1.27996	1.27660	1.27808	1.25447	
March 16 2023	297.94523	1.28028	1.27692	1.27841	1.25479	
March 17 2023	298.02177	1.28061	1.27725	1.27874	1.25511	
March 18 2023	298.09832	1.28094	1.27758	1.27907	1.25544	
March 19 2023	298.17487	1.28127	1.27791	1.27940	1.25576	
March 20 2023	298.25142	1.28160	1.27824	1.27972	1.25608	
March 21 2023	298.32797	1.28193	1.27856	1.28005	1.25640	
March 22 2023	298.40452	1.28226	1.27889	1.28038	1.25673	
March 23 2023	298.48106	1.28259	1.27922	1.28071	1.25705	
March 24 2023	298.55761	1.28292	1.27955	1.28104	1.25737	
March 25 2023	298.63416	1.28324	1.27988	1.28137	1.25769	
March 26 2023	298.71071	1.28357	1.28020	1.28170	1.25802	
March 27 2023	298.78726	1.28390	1.28053	1.28202	1.25834	
March 28 2023	298.86381	1.28423	1.28086	1.28235	1.25866	
March 29 2023	298.94035	1.28456	1.28119	1.28268	1.25898	
March 30 2023	299.01690	1.28489	1.28152	1.28301	1.25931	
March 31 2023	299.09345	1.28522	1.28184	1.28334	1.25963	
CPI-U (NSA) for:	November 2022	297.711	December 2022	296.797	January 2023	299.170

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 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	
March 1 2023	296.79700	1.25308	1.26038	1.25155	1.24909	
March 2 2023	296.87355	1.25340	1.26071	1.25187	1.24941	
March 3 2023	296.95010	1.25373	1.26103	1.25220	1.24973	
March 4 2023	297.02665	1.25405	1.26136	1.25252	1.25005	
March 5 2023	297.10319	1.25437	1.26168	1.25284	1.25037	
March 6 2023	297.17974	1.25470	1.26201	1.25316	1.25070	
March 7 2023	297.25629	1.25502	1.26233	1.25349	1.25102	
March 8 2023	297.33284	1.25534	1.26266	1.25381	1.25134	
March 9 2023	297.40939	1.25567	1.26298	1.25413	1.25166	
March 10 2023	297.48594	1.25599	1.26331	1.25445	1.25199	
March 11 2023	297.56248	1.25631	1.26363	1.25478	1.25231	
March 12 2023	297.63903	1.25663	1.26396	1.25510	1.25263	
March 13 2023	297.71558	1.25696	1.26428	1.25542	1.25295	
March 14 2023	297.79213	1.25728	1.26461	1.25575	1.25327	
March 15 2023	297.86868	1.25760	1.26493	1.25607	1.25360	
March 16 2023	297.94523	1.25793	1.26526	1.25639	1.25392	
March 17 2023	298.02177	1.25825	1.26558	1.25671	1.25424	
March 18 2023	298.09832	1.25857	1.26591	1.25704	1.25456	
March 19 2023	298.17487	1.25890	1.26623	1.25736	1.25489	
March 20 2023	298.25142	1.25922	1.26656	1.25768	1.25521	
March 21 2023	298.32797	1.25954	1.26688	1.25801	1.25553	
March 22 2023	298.40452	1.25987	1.26721	1.25833	1.25585	
March 23 2023	298.48106	1.26019	1.26754	1.25865	1.25617	
March 24 2023	298.55761	1.26051	1.26786	1.25897	1.25650	
March 25 2023	298.63416	1.26084	1.26819	1.25930	1.25682	
March 26 2023	298.71071	1.26116	1.26851	1.25962	1.25714	
March 27 2023	298.78726	1.26148	1.26884	1.25994	1.25746	
March 28 2023	298.86381	1.26181	1.26916	1.26026	1.25778	
March 29 2023	298.94035	1.26213	1.26949	1.26059	1.25811	
March 30 2023	299.01690	1.26245	1.26981	1.26091	1.25843	
March 31 2023	299.09345	1.26278	1.27014	1.26123	1.25875	
CPI-U (NSA) for:	November 2022	297.711	December 2022	296.797	January 2023	299.170

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
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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	
March 1 2023	296.79700	1.25260	1.23820	1.22867	1.22952	
March 2 2023	296.87355	1.25292	1.23851	1.22899	1.22984	
March 3 2023	296.95010	1.25325	1.23883	1.22931	1.23015	
March 4 2023	297.02665	1.25357	1.23915	1.22962	1.23047	
March 5 2023	297.10319	1.25389	1.23947	1.22994	1.23079	
March 6 2023	297.17974	1.25422	1.23979	1.23026	1.23111	
March 7 2023	297.25629	1.25454	1.24011	1.23057	1.23142	
March 8 2023	297.33284	1.25486	1.24043	1.23089	1.23174	
March 9 2023	297.40939	1.25519	1.24075	1.23121	1.23206	
March 10 2023	297.48594	1.25551	1.24107	1.23152	1.23237	
March 11 2023	297.56248	1.25583	1.24139	1.23184	1.23269	
March 12 2023	297.63903	1.25616	1.24171	1.23216	1.23301	
March 13 2023	297.71558	1.25648	1.24203	1.23247	1.23333	
March 14 2023	297.79213	1.25680	1.24235	1.23279	1.23364	
March 15 2023	297.86868	1.25712	1.24267	1.23311	1.23396	
March 16 2023	297.94523	1.25745	1.24299	1.23343	1.23428	
March 17 2023	298.02177	1.25777	1.24330	1.23374	1.23459	
March 18 2023	298.09832	1.25809	1.24362	1.23406	1.23491	
March 19 2023	298.17487	1.25842	1.24394	1.23438	1.23523	
March 20 2023	298.25142	1.25874	1.24426	1.23469	1.23555	
March 21 2023	298.32797	1.25906	1.24458	1.23501	1.23586	
March 22 2023	298.40452	1.25939	1.24490	1.23533	1.23618	
March 23 2023	298.48106	1.25971	1.24522	1.23564	1.23650	
March 24 2023	298.55761	1.26003	1.24554	1.23596	1.23681	
March 25 2023	298.63416	1.26035	1.24586	1.23628	1.23713	
March 26 2023	298.71071	1.26068	1.24618	1.23659	1.23745	
March 27 2023	298.78726	1.26100	1.24650	1.23691	1.23777	
March 28 2023	298.86381	1.26132	1.24682	1.23723	1.23808	
March 29 2023	298.94035	1.26165	1.24714	1.23754	1.23840	
March 30 2023	299.01690	1.26197	1.24746	1.23786	1.23872	
March 31 2023	299.09345	1.26229	1.24778	1.23818	1.23903	
CPI-U (NSA) for:			November 2022 297.711	December 2022 296.797	January 2023 299.170	

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Ref CPI and Index Ratios for
March 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	
March 1 2023	296.79700	1.21331	1.20324	1.20357	1.19488	
March 2 2023	296.87355	1.21362	1.20355	1.20388	1.19518	
March 3 2023	296.95010	1.21393	1.20386	1.20419	1.19549	
March 4 2023	297.02665	1.21424	1.20417	1.20450	1.19580	
March 5 2023	297.10319	1.21456	1.20448	1.20482	1.19611	
March 6 2023	297.17974	1.21487	1.20479	1.20513	1.19642	
March 7 2023	297.25629	1.21518	1.20510	1.20544	1.19672	
March 8 2023	297.33284	1.21550	1.20541	1.20575	1.19703	
March 9 2023	297.40939	1.21581	1.20572	1.20606	1.19734	
March 10 2023	297.48594	1.21612	1.20603	1.20637	1.19765	
March 11 2023	297.56248	1.21644	1.20634	1.20668	1.19796	
March 12 2023	297.63903	1.21675	1.20665	1.20699	1.19827	
March 13 2023	297.71558	1.21706	1.20696	1.20730	1.19857	
March 14 2023	297.79213	1.21737	1.20727	1.20761	1.19888	
March 15 2023	297.86868	1.21769	1.20758	1.20792	1.19919	
March 16 2023	297.94523	1.21800	1.20789	1.20823	1.19950	
March 17 2023	298.02177	1.21831	1.20820	1.20854	1.19981	
March 18 2023	298.09832	1.21863	1.20851	1.20885	1.20011	
March 19 2023	298.17487	1.21894	1.20882	1.20916	1.20042	
March 20 2023	298.25142	1.21925	1.20913	1.20947	1.20073	
March 21 2023	298.32797	1.21956	1.20944	1.20978	1.20104	
March 22 2023	298.40452	1.21988	1.20975	1.21009	1.20135	
March 23 2023	298.48106	1.22019	1.21006	1.21040	1.20166	
March 24 2023	298.55761	1.22050	1.21037	1.21071	1.20196	
March 25 2023	298.63416	1.22082	1.21068	1.21102	1.20227	
March 26 2023	298.71071	1.22113	1.21099	1.21133	1.20258	
March 27 2023	298.78726	1.22144	1.21130	1.21164	1.20289	
March 28 2023	298.86381	1.22176	1.21161	1.21195	1.20320	
March 29 2023	298.94035	1.22207	1.21193	1.21227	1.20350	
March 30 2023	299.01690	1.22238	1.21224	1.21258	1.20381	
March 31 2023	299.09345	1.22269	1.21255	1.21289	1.20412	
CPI-U (NSA) for:	November 2022	297.711	December 2022	296.797	January 2023	299.170

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-1/2% 5-Year TIPS Series X-2024 9128286N5 April 15, 2019 April 30, 2019 June 28, 2019
Maturity Date: Ref CPI on Dated Date:			July 15, 2028 251.01658	January 15, 2029 252.50248	February 15, 2049 251.63550	April 15, 2024 252.20853
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
March 1 2023	296.79700	1.18238	1.17542	1.17947	1.17679	
March 2 2023	296.87355	1.18269	1.17573	1.17978	1.17710	
March 3 2023	296.95010	1.18299	1.17603	1.18008	1.17740	
March 4 2023	297.02665	1.18329	1.17633	1.18038	1.17770	
March 5 2023	297.10319	1.18360	1.17663	1.18069	1.17801	
March 6 2023	297.17974	1.18390	1.17694	1.18099	1.17831	
March 7 2023	297.25629	1.18421	1.17724	1.18130	1.17861	
March 8 2023	297.33284	1.18451	1.17754	1.18160	1.17892	
March 9 2023	297.40939	1.18482	1.17785	1.18191	1.17922	
March 10 2023	297.48594	1.18512	1.17815	1.18221	1.17952	
March 11 2023	297.56248	1.18543	1.17845	1.18251	1.17983	
March 12 2023	297.63903	1.18573	1.17876	1.18282	1.18013	
March 13 2023	297.71558	1.18604	1.17906	1.18312	1.18043	
March 14 2023	297.79213	1.18634	1.17936	1.18343	1.18074	
March 15 2023	297.86868	1.18665	1.17967	1.18373	1.18104	
March 16 2023	297.94523	1.18695	1.17997	1.18403	1.18134	
March 17 2023	298.02177	1.18726	1.18027	1.18434	1.18165	
March 18 2023	298.09832	1.18756	1.18058	1.18464	1.18195	
March 19 2023	298.17487	1.18787	1.18088	1.18495	1.18226	
March 20 2023	298.25142	1.18817	1.18118	1.18525	1.18256	
March 21 2023	298.32797	1.18848	1.18149	1.18556	1.18286	
March 22 2023	298.40452	1.18878	1.18179	1.18586	1.18317	
March 23 2023	298.48106	1.18909	1.18209	1.18616	1.18347	
March 24 2023	298.55761	1.18939	1.18239	1.18647	1.18377	
March 25 2023	298.63416	1.18970	1.18270	1.18677	1.18408	
March 26 2023	298.71071	1.19000	1.18300	1.18708	1.18438	
March 27 2023	298.78726	1.19031	1.18330	1.18738	1.18468	
March 28 2023	298.86381	1.19061	1.18361	1.18769	1.18499	
March 29 2023	298.94035	1.19092	1.18391	1.18799	1.18529	
March 30 2023	299.01690	1.19122	1.18421	1.18829	1.18559	
March 31 2023	299.09345	1.19153	1.18452	1.18860	1.18590	
CPI-U (NSA) for:			November 2022 297.711	December 2022 296.797	January 2023 299.170	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
March 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 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	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	
March 1 2023	296.79700	1.16030	1.15681	1.15358	1.15443	
March 2 2023	296.87355	1.16060	1.15711	1.15388	1.15472	
March 3 2023	296.95010	1.16090	1.15741	1.15417	1.15502	
March 4 2023	297.02665	1.16120	1.15770	1.15447	1.15532	
March 5 2023	297.10319	1.16150	1.15800	1.15477	1.15562	
March 6 2023	297.17974	1.16179	1.15830	1.15507	1.15591	
March 7 2023	297.25629	1.16209	1.15860	1.15536	1.15621	
March 8 2023	297.33284	1.16239	1.15890	1.15566	1.15651	
March 9 2023	297.40939	1.16269	1.15920	1.15596	1.15681	
March 10 2023	297.48594	1.16299	1.15949	1.15626	1.15710	
March 11 2023	297.56248	1.16329	1.15979	1.15655	1.15740	
March 12 2023	297.63903	1.16359	1.16009	1.15685	1.15770	
March 13 2023	297.71558	1.16389	1.16039	1.15715	1.15800	
March 14 2023	297.79213	1.16419	1.16069	1.15745	1.15830	
March 15 2023	297.86868	1.16449	1.16099	1.15774	1.15859	
March 16 2023	297.94523	1.16479	1.16128	1.15804	1.15889	
March 17 2023	298.02177	1.16509	1.16158	1.15834	1.15919	
March 18 2023	298.09832	1.16539	1.16188	1.15864	1.15949	
March 19 2023	298.17487	1.16569	1.16218	1.15893	1.15978	
March 20 2023	298.25142	1.16598	1.16248	1.15923	1.16008	
March 21 2023	298.32797	1.16628	1.16278	1.15953	1.16038	
March 22 2023	298.40452	1.16658	1.16308	1.15983	1.16068	
March 23 2023	298.48106	1.16688	1.16337	1.16012	1.16098	
March 24 2023	298.55761	1.16718	1.16367	1.16042	1.16127	
March 25 2023	298.63416	1.16748	1.16397	1.16072	1.16157	
March 26 2023	298.71071	1.16778	1.16427	1.16102	1.16187	
March 27 2023	298.78726	1.16808	1.16457	1.16131	1.16217	
March 28 2023	298.86381	1.16838	1.16487	1.16161	1.16246	
March 29 2023	298.94035	1.16868	1.16516	1.16191	1.16276	
March 30 2023	299.01690	1.16898	1.16546	1.16221	1.16306	
March 31 2023	299.09345	1.16928	1.16576	1.16250	1.16336	
CPI-U (NSA) for:	November 2022	297.711	December 2022	296.797	January 2023	299.170

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

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	
March 1 2023	296.79700	1.14904	1.15759	1.14386	1.14014	
March 2 2023	296.87355	1.14933	1.15789	1.14415	1.14043	
March 3 2023	296.95010	1.14963	1.15819	1.14445	1.14073	
March 4 2023	297.02665	1.14992	1.15849	1.14474	1.14102	
March 5 2023	297.10319	1.15022	1.15879	1.14504	1.14132	
March 6 2023	297.17974	1.15052	1.15909	1.14533	1.14161	
March 7 2023	297.25629	1.15081	1.15939	1.14563	1.14190	
March 8 2023	297.33284	1.15111	1.15968	1.14592	1.14220	
March 9 2023	297.40939	1.15141	1.15998	1.14622	1.14249	
March 10 2023	297.48594	1.15170	1.16028	1.14651	1.14279	
March 11 2023	297.56248	1.15200	1.16058	1.14681	1.14308	
March 12 2023	297.63903	1.15230	1.16088	1.14710	1.14338	
March 13 2023	297.71558	1.15259	1.16118	1.14740	1.14367	
March 14 2023	297.79213	1.15289	1.16148	1.14769	1.14396	
March 15 2023	297.86868	1.15318	1.16177	1.14799	1.14426	
March 16 2023	297.94523	1.15348	1.16207	1.14828	1.14455	
March 17 2023	298.02177	1.15378	1.16237	1.14858	1.14485	
March 18 2023	298.09832	1.15407	1.16267	1.14887	1.14514	
March 19 2023	298.17487	1.15437	1.16297	1.14917	1.14543	
March 20 2023	298.25142	1.15467	1.16327	1.14946	1.14573	
March 21 2023	298.32797	1.15496	1.16357	1.14976	1.14602	
March 22 2023	298.40452	1.15526	1.16386	1.15005	1.14632	
March 23 2023	298.48106	1.15556	1.16416	1.15035	1.14661	
March 24 2023	298.55761	1.15585	1.16446	1.15064	1.14690	
March 25 2023	298.63416	1.15615	1.16476	1.15094	1.14720	
March 26 2023	298.71071	1.15644	1.16506	1.15123	1.14749	
March 27 2023	298.78726	1.15674	1.16536	1.15153	1.14779	
March 28 2023	298.86381	1.15704	1.16566	1.15182	1.14808	
March 29 2023	298.94035	1.15733	1.16595	1.15212	1.14837	
March 30 2023	299.01690	1.15763	1.16625	1.15241	1.14867	
March 31 2023	299.09345	1.15793	1.16655	1.15271	1.14896	
CPI-U (NSA) for:	November 2022	297.711	December 2022	296.797	January 2023	299.170

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
March 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	
March 1 2023	296.79700	1.13999	1.13173	1.10737	1.08614	
March 2 2023	296.87355	1.14028	1.13202	1.10765	1.08642	
March 3 2023	296.95010	1.14057	1.13232	1.10794	1.08670	
March 4 2023	297.02665	1.14087	1.13261	1.10822	1.08698	
March 5 2023	297.10319	1.14116	1.13290	1.10851	1.08726	
March 6 2023	297.17974	1.14146	1.13319	1.10879	1.08754	
March 7 2023	297.25629	1.14175	1.13348	1.10908	1.08782	
March 8 2023	297.33284	1.14204	1.13378	1.10936	1.08810	
March 9 2023	297.40939	1.14234	1.13407	1.10965	1.08838	
March 10 2023	297.48594	1.14263	1.13436	1.10994	1.08866	
March 11 2023	297.56248	1.14293	1.13465	1.11022	1.08894	
March 12 2023	297.63903	1.14322	1.13494	1.11051	1.08922	
March 13 2023	297.71558	1.14351	1.13523	1.11079	1.08950	
March 14 2023	297.79213	1.14381	1.13553	1.11108	1.08978	
March 15 2023	297.86868	1.14410	1.13582	1.11136	1.09007	
March 16 2023	297.94523	1.14440	1.13611	1.11165	1.09035	
March 17 2023	298.02177	1.14469	1.13640	1.11193	1.09063	
March 18 2023	298.09832	1.14498	1.13669	1.11222	1.09091	
March 19 2023	298.17487	1.14528	1.13699	1.11251	1.09119	
March 20 2023	298.25142	1.14557	1.13728	1.11279	1.09147	
March 21 2023	298.32797	1.14587	1.13757	1.11308	1.09175	
March 22 2023	298.40452	1.14616	1.13786	1.11336	1.09203	
March 23 2023	298.48106	1.14645	1.13815	1.11365	1.09231	
March 24 2023	298.55761	1.14675	1.13845	1.11393	1.09259	
March 25 2023	298.63416	1.14704	1.13874	1.11422	1.09287	
March 26 2023	298.71071	1.14734	1.13903	1.11451	1.09315	
March 27 2023	298.78726	1.14763	1.13932	1.11479	1.09343	
March 28 2023	298.86381	1.14792	1.13961	1.11508	1.09371	
March 29 2023	298.94035	1.14822	1.13990	1.11536	1.09399	
March 30 2023	299.01690	1.14851	1.14020	1.11565	1.09427	
March 31 2023	299.09345	1.14881	1.14049	1.11593	1.09455	
CPI-U (NSA) for:			November 2022 297.711	December 2022 296.797	January 2023 299.170	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
March 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	
March 1 2023	296.79700	1.07069	1.06618	1.05118	1.02151	
March 2 2023	296.87355	1.07096	1.06645	1.05145	1.02177	
March 3 2023	296.95010	1.07124	1.06673	1.05172	1.02203	
March 4 2023	297.02665	1.07151	1.06700	1.05199	1.02230	
March 5 2023	297.10319	1.07179	1.06728	1.05226	1.02256	
March 6 2023	297.17974	1.07207	1.06755	1.05254	1.02282	
March 7 2023	297.25629	1.07234	1.06783	1.05281	1.02309	
March 8 2023	297.33284	1.07262	1.06810	1.05308	1.02335	
March 9 2023	297.40939	1.07289	1.06838	1.05335	1.02361	
March 10 2023	297.48594	1.07317	1.06865	1.05362	1.02388	
March 11 2023	297.56248	1.07345	1.06893	1.05389	1.02414	
March 12 2023	297.63903	1.07372	1.06920	1.05416	1.02440	
March 13 2023	297.71558	1.07400	1.06948	1.05443	1.02467	
March 14 2023	297.79213	1.07428	1.06975	1.05470	1.02493	
March 15 2023	297.86868	1.07455	1.07003	1.05498	1.02520	
March 16 2023	297.94523	1.07483	1.07030	1.05525	1.02546	
March 17 2023	298.02177	1.07510	1.07058	1.05552	1.02572	
March 18 2023	298.09832	1.07538	1.07085	1.05579	1.02599	
March 19 2023	298.17487	1.07566	1.07113	1.05606	1.02625	
March 20 2023	298.25142	1.07593	1.07140	1.05633	1.02651	
March 21 2023	298.32797	1.07621	1.07168	1.05660	1.02678	
March 22 2023	298.40452	1.07648	1.07195	1.05687	1.02704	
March 23 2023	298.48106	1.07676	1.07223	1.05714	1.02730	
March 24 2023	298.55761	1.07704	1.07250	1.05742	1.02757	
March 25 2023	298.63416	1.07731	1.07278	1.05769	1.02783	
March 26 2023	298.71071	1.07759	1.07305	1.05796	1.02809	
March 27 2023	298.78726	1.07787	1.07333	1.05823	1.02836	
March 28 2023	298.86381	1.07814	1.07360	1.05850	1.02862	
March 29 2023	298.94035	1.07842	1.07388	1.05877	1.02888	
March 30 2023	299.01690	1.07869	1.07415	1.05904	1.02915	
March 31 2023	299.09345	1.07897	1.07443	1.05931	1.02941	
CPI-U (NSA) for:	November 2022	297.711	December 2022	296.797	January 2023	299.170

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

Security:			1-5/8% 5-Year TIPS	1-1/8% 10-Year TIPS		
Description:			Series AE-2027	Series A-2033		
CUSIP Number:			91282CFR7	91282CGK1		
Dated Date:			October 15, 2022	January 15, 2023		
Original Issue Date:			October 31, 2022	January 31, 2023		
Additional Issue Date(s):			December 30, 2022			
Maturity Date:			October 15, 2027	January 15, 2033		
Ref CPI on Dated Date:			296.22858	297.87606		
Date			Ref CPI	Index Ratio	Index Ratio	
March	1	2023	296.79700	1.00192	0.99638	
March	2	2023	296.87355	1.00218	0.99663	
March	3	2023	296.95010	1.00244	0.99689	
March	4	2023	297.02665	1.00269	0.99715	
March	5	2023	297.10319	1.00295	0.99741	
March	6	2023	297.17974	1.00321	0.99766	
March	7	2023	297.25629	1.00347	0.99792	
March	8	2023	297.33284	1.00373	0.99818	
March	9	2023	297.40939	1.00399	0.99843	
March	10	2023	297.48594	1.00424	0.99869	
March	11	2023	297.56248	1.00450	0.99895	
March	12	2023	297.63903	1.00476	0.99920	
March	13	2023	297.71558	1.00502	0.99946	
March	14	2023	297.79213	1.00528	0.99972	
March	15	2023	297.86868	1.00554	0.99998	
March	16	2023	297.94523	1.00580	1.00023	
March	17	2023	298.02177	1.00605	1.00049	
March	18	2023	298.09832	1.00631	1.00075	
March	19	2023	298.17487	1.00657	1.00100	
March	20	2023	298.25142	1.00683	1.00126	
March	21	2023	298.32797	1.00709	1.00152	
March	22	2023	298.40452	1.00735	1.00177	
March	23	2023	298.48106	1.00760	1.00203	
March	24	2023	298.55761	1.00786	1.00229	
March	25	2023	298.63416	1.00812	1.00255	
March	26	2023	298.71071	1.00838	1.00280	
March	27	2023	298.78726	1.00864	1.00306	
March	28	2023	298.86381	1.00890	1.00332	
March	29	2023	298.94035	1.00915	1.00357	
March	30	2023	299.01690	1.00941	1.00383	
March	31	2023	299.09345	1.00967	1.00409	
CPI-U (NSA) for:			November 2022	297.711	December 2022	296.797
					January 2023	299.170