

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 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	
October 1 2021	273.00300	1.68791	1.66067	1.53805	1.44832	
October 2 2021	273.02119	1.68803	1.66078	1.53815	1.44841	
October 3 2021	273.03939	1.68814	1.66089	1.53825	1.44851	
October 4 2021	273.05758	1.68825	1.66100	1.53835	1.44861	
October 5 2021	273.07577	1.68836	1.66111	1.53846	1.44870	
October 6 2021	273.09397	1.68848	1.66122	1.53856	1.44880	
October 7 2021	273.11216	1.68859	1.66133	1.53866	1.44890	
October 8 2021	273.13035	1.68870	1.66144	1.53876	1.44899	
October 9 2021	273.14855	1.68881	1.66155	1.53887	1.44909	
October 10 2021	273.16674	1.68893	1.66167	1.53897	1.44919	
October 11 2021	273.18494	1.68904	1.66178	1.53907	1.44928	
October 12 2021	273.20313	1.68915	1.66189	1.53917	1.44938	
October 13 2021	273.22132	1.68926	1.66200	1.53928	1.44947	
October 14 2021	273.23952	1.68938	1.66211	1.53938	1.44957	
October 15 2021	273.25771	1.68949	1.66222	1.53948	1.44967	
October 16 2021	273.27590	1.68960	1.66233	1.53958	1.44976	
October 17 2021	273.29410	1.68971	1.66244	1.53969	1.44986	
October 18 2021	273.31229	1.68982	1.66255	1.53979	1.44996	
October 19 2021	273.33048	1.68994	1.66266	1.53989	1.45005	
October 20 2021	273.34868	1.69005	1.66277	1.53999	1.45015	
October 21 2021	273.36687	1.69016	1.66288	1.54010	1.45025	
October 22 2021	273.38506	1.69027	1.66299	1.54020	1.45034	
October 23 2021	273.40326	1.69039	1.66310	1.54030	1.45044	
October 24 2021	273.42145	1.69050	1.66321	1.54040	1.45054	
October 25 2021	273.43965	1.69061	1.66333	1.54051	1.45063	
October 26 2021	273.45784	1.69072	1.66344	1.54061	1.45073	
October 27 2021	273.47603	1.69084	1.66355	1.54071	1.45083	
October 28 2021	273.49423	1.69095	1.66366	1.54081	1.45092	
October 29 2021	273.51242	1.69106	1.66377	1.54092	1.45102	
October 30 2021	273.53061	1.69117	1.66388	1.54102	1.45112	
October 31 2021	273.54881	1.69129	1.66399	1.54112	1.45121	
CPI-U (NSA) for:			June 2021 271.696	July 2021 273.003	August 2021 273.567	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 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	
October 1 2021	273.00300	1.37549	1.35375	1.30314	1.27156	
October 2 2021	273.02119	1.37558	1.35384	1.30323	1.27164	
October 3 2021	273.03939	1.37567	1.35393	1.30331	1.27173	
October 4 2021	273.05758	1.37576	1.35402	1.30340	1.27181	
October 5 2021	273.07577	1.37585	1.35411	1.30349	1.27190	
October 6 2021	273.09397	1.37594	1.35420	1.30357	1.27198	
October 7 2021	273.11216	1.37604	1.35429	1.30366	1.27207	
October 8 2021	273.13035	1.37613	1.35438	1.30375	1.27215	
October 9 2021	273.14855	1.37622	1.35447	1.30383	1.27224	
October 10 2021	273.16674	1.37631	1.35456	1.30392	1.27232	
October 11 2021	273.18494	1.37640	1.35465	1.30401	1.27240	
October 12 2021	273.20313	1.37649	1.35474	1.30409	1.27249	
October 13 2021	273.22132	1.37659	1.35483	1.30418	1.27257	
October 14 2021	273.23952	1.37668	1.35492	1.30427	1.27266	
October 15 2021	273.25771	1.37677	1.35501	1.30435	1.27274	
October 16 2021	273.27590	1.37686	1.35510	1.30444	1.27283	
October 17 2021	273.29410	1.37695	1.35519	1.30453	1.27291	
October 18 2021	273.31229	1.37704	1.35528	1.30462	1.27300	
October 19 2021	273.33048	1.37714	1.35537	1.30470	1.27308	
October 20 2021	273.34868	1.37723	1.35546	1.30479	1.27317	
October 21 2021	273.36687	1.37732	1.35555	1.30488	1.27325	
October 22 2021	273.38506	1.37741	1.35564	1.30496	1.27334	
October 23 2021	273.40326	1.37750	1.35573	1.30505	1.27342	
October 24 2021	273.42145	1.37759	1.35582	1.30514	1.27351	
October 25 2021	273.43965	1.37769	1.35591	1.30522	1.27359	
October 26 2021	273.45784	1.37778	1.35600	1.30531	1.27368	
October 27 2021	273.47603	1.37787	1.35609	1.30540	1.27376	
October 28 2021	273.49423	1.37796	1.35618	1.30548	1.27385	
October 29 2021	273.51242	1.37805	1.35627	1.30557	1.27393	
October 30 2021	273.53061	1.37814	1.35636	1.30566	1.27401	
October 31 2021	273.54881	1.37824	1.35645	1.30574	1.27410	
CPI-U (NSA) for:			June 2021 271.696	July 2021 273.003	August 2021 273.567	

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October 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	0-1/8% 10-Year TIPS Series A-2022 912828SA9 January 15, 2012 January 31, 2012 March 30, 2012 May 31, 2012	0-3/4% 30-Year TIPS TIPS of February 2042 912810QV3 February 15, 2012 February 29, 2012 June 29, 2012 October 31, 2012
Maturity Date: Ref CPI on Dated Date:			February 15, 2040 216.13950	February 15, 2041 218.99100	January 15, 2022 226.33474	February 15, 2042 225.96062
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2021	273.00300	1.26309	1.24664	1.20619	1.20819	
October 2 2021	273.02119	1.26317	1.24672	1.20627	1.20827	
October 3 2021	273.03939	1.26326	1.24681	1.20635	1.20835	
October 4 2021	273.05758	1.26334	1.24689	1.20643	1.20843	
October 5 2021	273.07577	1.26342	1.24697	1.20651	1.20851	
October 6 2021	273.09397	1.26351	1.24706	1.20659	1.20859	
October 7 2021	273.11216	1.26359	1.24714	1.20667	1.20867	
October 8 2021	273.13035	1.26368	1.24722	1.20675	1.20875	
October 9 2021	273.14855	1.26376	1.24730	1.20683	1.20883	
October 10 2021	273.16674	1.26384	1.24739	1.20691	1.20891	
October 11 2021	273.18494	1.26393	1.24747	1.20700	1.20899	
October 12 2021	273.20313	1.26401	1.24755	1.20708	1.20907	
October 13 2021	273.22132	1.26410	1.24764	1.20716	1.20915	
October 14 2021	273.23952	1.26418	1.24772	1.20724	1.20924	
October 15 2021	273.25771	1.26427	1.24780	1.20732	1.20932	
October 16 2021	273.27590	1.26435	1.24789	1.20740	1.20940	
October 17 2021	273.29410	1.26443	1.24797	1.20748	1.20948	
October 18 2021	273.31229	1.26452	1.24805	1.20756	1.20956	
October 19 2021	273.33048	1.26460	1.24814	1.20764	1.20964	
October 20 2021	273.34868	1.26469	1.24822	1.20772	1.20972	
October 21 2021	273.36687	1.26477	1.24830	1.20780	1.20980	
October 22 2021	273.38506	1.26485	1.24838	1.20788	1.20988	
October 23 2021	273.40326	1.26494	1.24847	1.20796	1.20996	
October 24 2021	273.42145	1.26502	1.24855	1.20804	1.21004	
October 25 2021	273.43965	1.26511	1.24863	1.20812	1.21012	
October 26 2021	273.45784	1.26519	1.24872	1.20820	1.21020	
October 27 2021	273.47603	1.26528	1.24880	1.20828	1.21028	
October 28 2021	273.49423	1.26536	1.24888	1.20836	1.21036	
October 29 2021	273.51242	1.26544	1.24897	1.20844	1.21044	
October 30 2021	273.53061	1.26553	1.24905	1.20852	1.21052	
October 31 2021	273.54881	1.26561	1.24913	1.20860	1.21060	
CPI-U (NSA) for:	June 2021	271.696	July 2021	273.003	August 2021	273.567

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-3/8% 10-Year TIPS Series D-2023 912828VM9 July 15, 2013 July 31, 2013 September 30, 2013 November 29, 2013
Maturity Date: Ref CPI on Dated Date:			July 15, 2022 229.96306	January 15, 2023 230.82203	February 15, 2043 229.91100	July 15, 2023 232.71797
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2021	273.00300	1.18716	1.18274	1.18743	1.17311	
October 2 2021	273.02119	1.18724	1.18282	1.18751	1.17318	
October 3 2021	273.03939	1.18732	1.18290	1.18759	1.17326	
October 4 2021	273.05758	1.18740	1.18298	1.18767	1.17334	
October 5 2021	273.07577	1.18748	1.18306	1.18775	1.17342	
October 6 2021	273.09397	1.18756	1.18314	1.18782	1.17350	
October 7 2021	273.11216	1.18763	1.18322	1.18790	1.17358	
October 8 2021	273.13035	1.18771	1.18329	1.18798	1.17365	
October 9 2021	273.14855	1.18779	1.18337	1.18806	1.17373	
October 10 2021	273.16674	1.18787	1.18345	1.18814	1.17381	
October 11 2021	273.18494	1.18795	1.18353	1.18822	1.17389	
October 12 2021	273.20313	1.18803	1.18361	1.18830	1.17397	
October 13 2021	273.22132	1.18811	1.18369	1.18838	1.17404	
October 14 2021	273.23952	1.18819	1.18377	1.18846	1.17412	
October 15 2021	273.25771	1.18827	1.18385	1.18854	1.17420	
October 16 2021	273.27590	1.18835	1.18392	1.18862	1.17428	
October 17 2021	273.29410	1.18843	1.18400	1.18870	1.17436	
October 18 2021	273.31229	1.18851	1.18408	1.18877	1.17444	
October 19 2021	273.33048	1.18858	1.18416	1.18885	1.17451	
October 20 2021	273.34868	1.18866	1.18424	1.18893	1.17459	
October 21 2021	273.36687	1.18874	1.18432	1.18901	1.17467	
October 22 2021	273.38506	1.18882	1.18440	1.18909	1.17475	
October 23 2021	273.40326	1.18890	1.18448	1.18917	1.17483	
October 24 2021	273.42145	1.18898	1.18456	1.18925	1.17490	
October 25 2021	273.43965	1.18906	1.18463	1.18933	1.17498	
October 26 2021	273.45784	1.18914	1.18471	1.18941	1.17506	
October 27 2021	273.47603	1.18922	1.18479	1.18949	1.17514	
October 28 2021	273.49423	1.18930	1.18487	1.18957	1.17522	
October 29 2021	273.51242	1.18938	1.18495	1.18964	1.17530	
October 30 2021	273.53061	1.18945	1.18503	1.18972	1.17537	
October 31 2021	273.54881	1.18953	1.18511	1.18980	1.17545	
CPI-U (NSA) for:	June 2021	271.696	July 2021	273.003	August 2021	273.567

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-1/4% 10-Year TIPS Series A-2025 912828H45 January 15, 2015 January 30, 2015 March 31, 2015 May 29, 2015
Maturity Date: Ref CPI on Dated Date:			January 15, 2024 233.33058	February 15, 2044 233.05900	July 15, 2024 237.44594	January 15, 2025 236.85403
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2021	273.00300	1.17003	1.17139	1.14975	1.15262	
October 2 2021	273.02119	1.17010	1.17147	1.14982	1.15270	
October 3 2021	273.03939	1.17018	1.17155	1.14990	1.15277	
October 4 2021	273.05758	1.17026	1.17162	1.14998	1.15285	
October 5 2021	273.07577	1.17034	1.17170	1.15005	1.15293	
October 6 2021	273.09397	1.17042	1.17178	1.15013	1.15301	
October 7 2021	273.11216	1.17049	1.17186	1.15021	1.15308	
October 8 2021	273.13035	1.17057	1.17194	1.15028	1.15316	
October 9 2021	273.14855	1.17065	1.17201	1.15036	1.15324	
October 10 2021	273.16674	1.17073	1.17209	1.15044	1.15331	
October 11 2021	273.18494	1.17081	1.17217	1.15051	1.15339	
October 12 2021	273.20313	1.17088	1.17225	1.15059	1.15347	
October 13 2021	273.22132	1.17096	1.17233	1.15067	1.15354	
October 14 2021	273.23952	1.17104	1.17240	1.15074	1.15362	
October 15 2021	273.25771	1.17112	1.17248	1.15082	1.15370	
October 16 2021	273.27590	1.17120	1.17256	1.15090	1.15377	
October 17 2021	273.29410	1.17127	1.17264	1.15097	1.15385	
October 18 2021	273.31229	1.17135	1.17272	1.15105	1.15393	
October 19 2021	273.33048	1.17143	1.17280	1.15113	1.15400	
October 20 2021	273.34868	1.17151	1.17287	1.15120	1.15408	
October 21 2021	273.36687	1.17159	1.17295	1.15128	1.15416	
October 22 2021	273.38506	1.17166	1.17303	1.15136	1.15423	
October 23 2021	273.40326	1.17174	1.17311	1.15143	1.15431	
October 24 2021	273.42145	1.17182	1.17319	1.15151	1.15439	
October 25 2021	273.43965	1.17190	1.17326	1.15159	1.15446	
October 26 2021	273.45784	1.17198	1.17334	1.15166	1.15454	
October 27 2021	273.47603	1.17205	1.17342	1.15174	1.15462	
October 28 2021	273.49423	1.17213	1.17350	1.15182	1.15470	
October 29 2021	273.51242	1.17221	1.17358	1.15189	1.15477	
October 30 2021	273.53061	1.17229	1.17365	1.15197	1.15485	
October 31 2021	273.54881	1.17237	1.17373	1.15205	1.15493	
CPI-U (NSA) for:	June 2021	271.696	July 2021	273.003	August 2021	273.567

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
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October 2021

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	1% 30-Year TIPS TIPS of February 2046 912810RR1 February 15, 2016 February 29, 2016 June 30, 2016 October 31, 2016
Maturity Date: Ref CPI on Dated Date:			February 15, 2045 235.48150	July 15, 2025 237.14365	January 15, 2026 237.61129	February 15, 2046 236.94448
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2021	273.00300	1.15934	1.15121	1.14895	1.15218	
October 2 2021	273.02119	1.15942	1.15129	1.14902	1.15226	
October 3 2021	273.03939	1.15949	1.15137	1.14910	1.15233	
October 4 2021	273.05758	1.15957	1.15144	1.14918	1.15241	
October 5 2021	273.07577	1.15965	1.15152	1.14925	1.15249	
October 6 2021	273.09397	1.15973	1.15160	1.14933	1.15257	
October 7 2021	273.11216	1.15980	1.15167	1.14941	1.15264	
October 8 2021	273.13035	1.15988	1.15175	1.14948	1.15272	
October 9 2021	273.14855	1.15996	1.15183	1.14956	1.15280	
October 10 2021	273.16674	1.16003	1.15190	1.14964	1.15287	
October 11 2021	273.18494	1.16011	1.15198	1.14971	1.15295	
October 12 2021	273.20313	1.16019	1.15206	1.14979	1.15303	
October 13 2021	273.22132	1.16027	1.15213	1.14987	1.15310	
October 14 2021	273.23952	1.16034	1.15221	1.14994	1.15318	
October 15 2021	273.25771	1.16042	1.15229	1.15002	1.15326	
October 16 2021	273.27590	1.16050	1.15236	1.15010	1.15333	
October 17 2021	273.29410	1.16058	1.15244	1.15017	1.15341	
October 18 2021	273.31229	1.16065	1.15252	1.15025	1.15349	
October 19 2021	273.33048	1.16073	1.15259	1.15033	1.15356	
October 20 2021	273.34868	1.16081	1.15267	1.15040	1.15364	
October 21 2021	273.36687	1.16088	1.15275	1.15048	1.15372	
October 22 2021	273.38506	1.16096	1.15282	1.15056	1.15379	
October 23 2021	273.40326	1.16104	1.15290	1.15063	1.15387	
October 24 2021	273.42145	1.16112	1.15298	1.15071	1.15395	
October 25 2021	273.43965	1.16119	1.15305	1.15079	1.15402	
October 26 2021	273.45784	1.16127	1.15313	1.15086	1.15410	
October 27 2021	273.47603	1.16135	1.15321	1.15094	1.15418	
October 28 2021	273.49423	1.16143	1.15329	1.15102	1.15425	
October 29 2021	273.51242	1.16150	1.15336	1.15109	1.15433	
October 30 2021	273.53061	1.16158	1.15344	1.15117	1.15441	
October 31 2021	273.54881	1.16166	1.15352	1.15125	1.15448	
CPI-U (NSA) for:	June 2021	271.696	July 2021	273.003	August 2021	273.567

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-1/8% 5-Year TIPS Series X-2022 912828X39 April 15, 2017 April 28, 2017 August 31, 2017 December 29, 2017
Maturity Date: Ref CPI on Dated Date:			July 15, 2026 239.70132	January 15, 2027 241.55919	February 15, 2047 241.39250	April 15, 2022 243.19553
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2021	273.00300	1.13893	1.13017	1.13095	1.12257	
October 2 2021	273.02119	1.13901	1.13025	1.13103	1.12264	
October 3 2021	273.03939	1.13908	1.13032	1.13110	1.12272	
October 4 2021	273.05758	1.13916	1.13040	1.13118	1.12279	
October 5 2021	273.07577	1.13923	1.13047	1.13125	1.12287	
October 6 2021	273.09397	1.13931	1.13055	1.13133	1.12294	
October 7 2021	273.11216	1.13939	1.13062	1.13140	1.12301	
October 8 2021	273.13035	1.13946	1.13070	1.13148	1.12309	
October 9 2021	273.14855	1.13954	1.13077	1.13155	1.12316	
October 10 2021	273.16674	1.13961	1.13085	1.13163	1.12324	
October 11 2021	273.18494	1.13969	1.13092	1.13170	1.12331	
October 12 2021	273.20313	1.13976	1.13100	1.13178	1.12339	
October 13 2021	273.22132	1.13984	1.13107	1.13186	1.12346	
October 14 2021	273.23952	1.13992	1.13115	1.13193	1.12354	
October 15 2021	273.25771	1.13999	1.13122	1.13201	1.12361	
October 16 2021	273.27590	1.14007	1.13130	1.13208	1.12369	
October 17 2021	273.29410	1.14014	1.13138	1.13216	1.12376	
October 18 2021	273.31229	1.14022	1.13145	1.13223	1.12384	
October 19 2021	273.33048	1.14030	1.13153	1.13231	1.12391	
October 20 2021	273.34868	1.14037	1.13160	1.13238	1.12399	
October 21 2021	273.36687	1.14045	1.13168	1.13246	1.12406	
October 22 2021	273.38506	1.14052	1.13175	1.13253	1.12414	
October 23 2021	273.40326	1.14060	1.13183	1.13261	1.12421	
October 24 2021	273.42145	1.14068	1.13190	1.13268	1.12429	
October 25 2021	273.43965	1.14075	1.13198	1.13276	1.12436	
October 26 2021	273.45784	1.14083	1.13205	1.13283	1.12444	
October 27 2021	273.47603	1.14090	1.13213	1.13291	1.12451	
October 28 2021	273.49423	1.14098	1.13220	1.13299	1.12459	
October 29 2021	273.51242	1.14106	1.13228	1.13306	1.12466	
October 30 2021	273.53061	1.14113	1.13235	1.13314	1.12474	
October 31 2021	273.54881	1.14121	1.13243	1.13321	1.12481	
CPI-U (NSA) for:	June 2021	271.696	July 2021	273.003	August 2021	273.567

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

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	
October 1 2021	273.00300	1.11604	1.10677	1.10708	1.09908	
October 2 2021	273.02119	1.11611	1.10685	1.10716	1.09916	
October 3 2021	273.03939	1.11619	1.10692	1.10723	1.09923	
October 4 2021	273.05758	1.11626	1.10699	1.10731	1.09930	
October 5 2021	273.07577	1.11633	1.10707	1.10738	1.09938	
October 6 2021	273.09397	1.11641	1.10714	1.10745	1.09945	
October 7 2021	273.11216	1.11648	1.10722	1.10753	1.09952	
October 8 2021	273.13035	1.11656	1.10729	1.10760	1.09960	
October 9 2021	273.14855	1.11663	1.10736	1.10767	1.09967	
October 10 2021	273.16674	1.11671	1.10744	1.10775	1.09974	
October 11 2021	273.18494	1.11678	1.10751	1.10782	1.09982	
October 12 2021	273.20313	1.11685	1.10758	1.10790	1.09989	
October 13 2021	273.22132	1.11693	1.10766	1.10797	1.09996	
October 14 2021	273.23952	1.11700	1.10773	1.10804	1.10004	
October 15 2021	273.25771	1.11708	1.10781	1.10812	1.10011	
October 16 2021	273.27590	1.11715	1.10788	1.10819	1.10018	
October 17 2021	273.29410	1.11723	1.10795	1.10826	1.10026	
October 18 2021	273.31229	1.11730	1.10803	1.10834	1.10033	
October 19 2021	273.33048	1.11738	1.10810	1.10841	1.10040	
October 20 2021	273.34868	1.11745	1.10817	1.10849	1.10048	
October 21 2021	273.36687	1.11752	1.10825	1.10856	1.10055	
October 22 2021	273.38506	1.11760	1.10832	1.10863	1.10062	
October 23 2021	273.40326	1.11767	1.10840	1.10871	1.10069	
October 24 2021	273.42145	1.11775	1.10847	1.10878	1.10077	
October 25 2021	273.43965	1.11782	1.10854	1.10885	1.10084	
October 26 2021	273.45784	1.11790	1.10862	1.10893	1.10091	
October 27 2021	273.47603	1.11797	1.10869	1.10900	1.10099	
October 28 2021	273.49423	1.11804	1.10876	1.10908	1.10106	
October 29 2021	273.51242	1.11812	1.10884	1.10915	1.10113	
October 30 2021	273.53061	1.11819	1.10891	1.10922	1.10121	
October 31 2021	273.54881	1.11827	1.10899	1.10930	1.10128	
CPI-U (NSA) for:	June 2021	271.696	July 2021	273.003	August 2021	273.567

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):			0-3/4% 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	
October 1 2021	273.00300	1.08759	1.08119	1.08491	1.08245	
October 2 2021	273.02119	1.08766	1.08126	1.08499	1.08252	
October 3 2021	273.03939	1.08773	1.08133	1.08506	1.08259	
October 4 2021	273.05758	1.08781	1.08141	1.08513	1.08267	
October 5 2021	273.07577	1.08788	1.08148	1.08520	1.08274	
October 6 2021	273.09397	1.08795	1.08155	1.08528	1.08281	
October 7 2021	273.11216	1.08802	1.08162	1.08535	1.08288	
October 8 2021	273.13035	1.08810	1.08169	1.08542	1.08295	
October 9 2021	273.14855	1.08817	1.08177	1.08549	1.08303	
October 10 2021	273.16674	1.08824	1.08184	1.08557	1.08310	
October 11 2021	273.18494	1.08831	1.08191	1.08564	1.08317	
October 12 2021	273.20313	1.08839	1.08198	1.08571	1.08324	
October 13 2021	273.22132	1.08846	1.08205	1.08578	1.08332	
October 14 2021	273.23952	1.08853	1.08213	1.08585	1.08339	
October 15 2021	273.25771	1.08860	1.08220	1.08593	1.08346	
October 16 2021	273.27590	1.08868	1.08227	1.08600	1.08353	
October 17 2021	273.29410	1.08875	1.08234	1.08607	1.08360	
October 18 2021	273.31229	1.08882	1.08241	1.08614	1.08368	
October 19 2021	273.33048	1.08889	1.08249	1.08622	1.08375	
October 20 2021	273.34868	1.08897	1.08256	1.08629	1.08382	
October 21 2021	273.36687	1.08904	1.08263	1.08636	1.08389	
October 22 2021	273.38506	1.08911	1.08270	1.08643	1.08396	
October 23 2021	273.40326	1.08918	1.08277	1.08651	1.08404	
October 24 2021	273.42145	1.08926	1.08285	1.08658	1.08411	
October 25 2021	273.43965	1.08933	1.08292	1.08665	1.08418	
October 26 2021	273.45784	1.08940	1.08299	1.08672	1.08425	
October 27 2021	273.47603	1.08947	1.08306	1.08679	1.08433	
October 28 2021	273.49423	1.08955	1.08313	1.08687	1.08440	
October 29 2021	273.51242	1.08962	1.08321	1.08694	1.08447	
October 30 2021	273.53061	1.08969	1.08328	1.08701	1.08454	
October 31 2021	273.54881	1.08976	1.08335	1.08708	1.08461	
CPI-U (NSA) for:			June 2021 271.696	July 2021 273.003	August 2021 273.567	

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

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	
October 1 2021	273.00300	1.06728	1.06407	1.06110	1.06188	
October 2 2021	273.02119	1.06735	1.06414	1.06117	1.06195	
October 3 2021	273.03939	1.06742	1.06421	1.06124	1.06202	
October 4 2021	273.05758	1.06749	1.06428	1.06131	1.06209	
October 5 2021	273.07577	1.06756	1.06435	1.06138	1.06216	
October 6 2021	273.09397	1.06763	1.06442	1.06145	1.06223	
October 7 2021	273.11216	1.06770	1.06449	1.06152	1.06230	
October 8 2021	273.13035	1.06778	1.06457	1.06159	1.06237	
October 9 2021	273.14855	1.06785	1.06464	1.06166	1.06244	
October 10 2021	273.16674	1.06792	1.06471	1.06173	1.06251	
October 11 2021	273.18494	1.06799	1.06478	1.06180	1.06258	
October 12 2021	273.20313	1.06806	1.06485	1.06188	1.06265	
October 13 2021	273.22132	1.06813	1.06492	1.06195	1.06273	
October 14 2021	273.23952	1.06820	1.06499	1.06202	1.06280	
October 15 2021	273.25771	1.06827	1.06506	1.06209	1.06287	
October 16 2021	273.27590	1.06835	1.06513	1.06216	1.06294	
October 17 2021	273.29410	1.06842	1.06520	1.06223	1.06301	
October 18 2021	273.31229	1.06849	1.06527	1.06230	1.06308	
October 19 2021	273.33048	1.06856	1.06535	1.06237	1.06315	
October 20 2021	273.34868	1.06863	1.06542	1.06244	1.06322	
October 21 2021	273.36687	1.06870	1.06549	1.06251	1.06329	
October 22 2021	273.38506	1.06877	1.06556	1.06258	1.06336	
October 23 2021	273.40326	1.06884	1.06563	1.06265	1.06343	
October 24 2021	273.42145	1.06891	1.06570	1.06272	1.06350	
October 25 2021	273.43965	1.06899	1.06577	1.06279	1.06357	
October 26 2021	273.45784	1.06906	1.06584	1.06287	1.06364	
October 27 2021	273.47603	1.06913	1.06591	1.06294	1.06372	
October 28 2021	273.49423	1.06920	1.06598	1.06301	1.06379	
October 29 2021	273.51242	1.06927	1.06605	1.06308	1.06386	
October 30 2021	273.53061	1.06934	1.06613	1.06315	1.06393	
October 31 2021	273.54881	1.06941	1.06620	1.06322	1.06400	
CPI-U (NSA) for:	June 2021	271.696	July 2021	273.003	August 2021	273.567

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

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	
October 1 2021	273.00300	1.05692	1.06479	1.05216	1.04874	
October 2 2021	273.02119	1.05699	1.06486	1.05223	1.04881	
October 3 2021	273.03939	1.05706	1.06493	1.05230	1.04888	
October 4 2021	273.05758	1.05713	1.06500	1.05237	1.04895	
October 5 2021	273.07577	1.05720	1.06507	1.05244	1.04902	
October 6 2021	273.09397	1.05727	1.06515	1.05251	1.04909	
October 7 2021	273.11216	1.05734	1.06522	1.05258	1.04916	
October 8 2021	273.13035	1.05741	1.06529	1.05265	1.04923	
October 9 2021	273.14855	1.05748	1.06536	1.05272	1.04930	
October 10 2021	273.16674	1.05755	1.06543	1.05279	1.04937	
October 11 2021	273.18494	1.05762	1.06550	1.05286	1.04944	
October 12 2021	273.20313	1.05769	1.06557	1.05293	1.04950	
October 13 2021	273.22132	1.05776	1.06564	1.05300	1.04957	
October 14 2021	273.23952	1.05783	1.06571	1.05307	1.04964	
October 15 2021	273.25771	1.05790	1.06578	1.05314	1.04971	
October 16 2021	273.27590	1.05797	1.06585	1.05321	1.04978	
October 17 2021	273.29410	1.05805	1.06593	1.05328	1.04985	
October 18 2021	273.31229	1.05812	1.06600	1.05335	1.04992	
October 19 2021	273.33048	1.05819	1.06607	1.05342	1.04999	
October 20 2021	273.34868	1.05826	1.06614	1.05349	1.05006	
October 21 2021	273.36687	1.05833	1.06621	1.05356	1.05013	
October 22 2021	273.38506	1.05840	1.06628	1.05363	1.05020	
October 23 2021	273.40326	1.05847	1.06635	1.05370	1.05027	
October 24 2021	273.42145	1.05854	1.06642	1.05377	1.05034	
October 25 2021	273.43965	1.05861	1.06649	1.05384	1.05041	
October 26 2021	273.45784	1.05868	1.06656	1.05391	1.05048	
October 27 2021	273.47603	1.05875	1.06664	1.05398	1.05055	
October 28 2021	273.49423	1.05882	1.06671	1.05405	1.05062	
October 29 2021	273.51242	1.05889	1.06678	1.05412	1.05069	
October 30 2021	273.53061	1.05896	1.06685	1.05419	1.05076	
October 31 2021	273.54881	1.05903	1.06692	1.05426	1.05083	
CPI-U (NSA) for:			June 2021 271.696	July 2021 273.003	August 2021 273.567	

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

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	
Maturity Date: Ref CPI on Dated Date:			February 15, 2051 260.35150	April 15, 2026 262.25027	July 15, 2031 268.02090	
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio		
October 1 2021	273.00300	1.04859	1.04100	1.01859		
October 2 2021	273.02119	1.04866	1.04107	1.01866		
October 3 2021	273.03939	1.04873	1.04114	1.01872		
October 4 2021	273.05758	1.04880	1.04121	1.01879		
October 5 2021	273.07577	1.04887	1.04128	1.01886		
October 6 2021	273.09397	1.04894	1.04135	1.01893		
October 7 2021	273.11216	1.04901	1.04142	1.01900		
October 8 2021	273.13035	1.04908	1.04149	1.01906		
October 9 2021	273.14855	1.04915	1.04156	1.01913		
October 10 2021	273.16674	1.04922	1.04163	1.01920		
October 11 2021	273.18494	1.04929	1.04170	1.01927		
October 12 2021	273.20313	1.04936	1.04176	1.01934		
October 13 2021	273.22132	1.04943	1.04183	1.01940		
October 14 2021	273.23952	1.04950	1.04190	1.01947		
October 15 2021	273.25771	1.04957	1.04197	1.01954		
October 16 2021	273.27590	1.04964	1.04204	1.01961		
October 17 2021	273.29410	1.04971	1.04211	1.01967		
October 18 2021	273.31229	1.04978	1.04218	1.01974		
October 19 2021	273.33048	1.04985	1.04225	1.01981		
October 20 2021	273.34868	1.04992	1.04232	1.01988		
October 21 2021	273.36687	1.04999	1.04239	1.01995		
October 22 2021	273.38506	1.05006	1.04246	1.02001		
October 23 2021	273.40326	1.05013	1.04253	1.02008		
October 24 2021	273.42145	1.05020	1.04260	1.02015		
October 25 2021	273.43965	1.05027	1.04267	1.02022		
October 26 2021	273.45784	1.05034	1.04274	1.02029		
October 27 2021	273.47603	1.05041	1.04281	1.02035		
October 28 2021	273.49423	1.05048	1.04287	1.02042		
October 29 2021	273.51242	1.05055	1.04294	1.02049		
October 30 2021	273.53061	1.05062	1.04301	1.02056		
October 31 2021	273.54881	1.05069	1.04308	1.02062		
CPI-U (NSA) for:	June 2021	271.696	July 2021	273.003	August 2021	273.567