

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2016

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 2016	240.64700	1.48786	1.46385	1.35576	1.27666	
October 2 2016	240.65365	1.48790	1.46389	1.35580	1.27670	
October 3 2016	240.66029	1.48795	1.46393	1.35583	1.27673	
October 4 2016	240.66694	1.48799	1.46397	1.35587	1.27677	
October 5 2016	240.67358	1.48803	1.46401	1.35591	1.27680	
October 6 2016	240.68023	1.48807	1.46405	1.35594	1.27684	
October 7 2016	240.68687	1.48811	1.46409	1.35598	1.27688	
October 8 2016	240.69352	1.48815	1.46413	1.35602	1.27691	
October 9 2016	240.70016	1.48819	1.46417	1.35606	1.27695	
October 10 2016	240.70681	1.48823	1.46421	1.35609	1.27698	
October 11 2016	240.71345	1.48827	1.46425	1.35613	1.27702	
October 12 2016	240.72010	1.48832	1.46429	1.35617	1.27705	
October 13 2016	240.72674	1.48836	1.46433	1.35621	1.27709	
October 14 2016	240.73339	1.48840	1.46437	1.35624	1.27712	
October 15 2016	240.74003	1.48844	1.46441	1.35628	1.27716	
October 16 2016	240.74668	1.48848	1.46446	1.35632	1.27719	
October 17 2016	240.75332	1.48852	1.46450	1.35636	1.27723	
October 18 2016	240.75997	1.48856	1.46454	1.35639	1.27726	
October 19 2016	240.76661	1.48860	1.46458	1.35643	1.27730	
October 20 2016	240.77326	1.48864	1.46462	1.35647	1.27733	
October 21 2016	240.77990	1.48868	1.46466	1.35651	1.27737	
October 22 2016	240.78655	1.48873	1.46470	1.35654	1.27740	
October 23 2016	240.79319	1.48877	1.46474	1.35658	1.27744	
October 24 2016	240.79984	1.48881	1.46478	1.35662	1.27747	
October 25 2016	240.80648	1.48885	1.46482	1.35666	1.27751	
October 26 2016	240.81313	1.48889	1.46486	1.35669	1.27755	
October 27 2016	240.81977	1.48893	1.46490	1.35673	1.27758	
October 28 2016	240.82642	1.48897	1.46494	1.35677	1.27762	
October 29 2016	240.83306	1.48901	1.46498	1.35681	1.27765	
October 30 2016	240.83971	1.48905	1.46502	1.35684	1.27769	
October 31 2016	240.84635	1.48910	1.46506	1.35688	1.27772	
CPI-U (NSA) for:			June 2016 241.038	July 2016 240.647	August 2016 240.853	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2016

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 January 31, 2006	2-3/8% 10-Year TIPS Series A-2017 912828GD6 January 15, 2007 January 16, 2007 April 16, 2007	2-3/8% 20-Year TIPS TIPS of January 2027 912810PS1 January 15, 2007 January 31, 2007 July 31, 2007	2-5/8% 10-Year TIPS Series D-2017 912828GX2 July 15, 2007 July 16, 2007 October 15, 2007
Maturity Date: Ref CPI on Dated Date:			January 15, 2026 198.47742	January 15, 2017 201.66452	January 15, 2027 201.66452	July 15, 2017 207.25639
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2016	240.64700	1.21247	1.19330	1.19330	1.16111	
October 2 2016	240.65365	1.21250	1.19334	1.19334	1.16114	
October 3 2016	240.66029	1.21253	1.19337	1.19337	1.16117	
October 4 2016	240.66694	1.21257	1.19340	1.19340	1.16120	
October 5 2016	240.67358	1.21260	1.19344	1.19344	1.16124	
October 6 2016	240.68023	1.21263	1.19347	1.19347	1.16127	
October 7 2016	240.68687	1.21267	1.19350	1.19350	1.16130	
October 8 2016	240.69352	1.21270	1.19353	1.19353	1.16133	
October 9 2016	240.70016	1.21273	1.19357	1.19357	1.16136	
October 10 2016	240.70681	1.21277	1.19360	1.19360	1.16140	
October 11 2016	240.71345	1.21280	1.19363	1.19363	1.16143	
October 12 2016	240.72010	1.21283	1.19367	1.19367	1.16146	
October 13 2016	240.72674	1.21287	1.19370	1.19370	1.16149	
October 14 2016	240.73339	1.21290	1.19373	1.19373	1.16152	
October 15 2016	240.74003	1.21293	1.19376	1.19376	1.16156	
October 16 2016	240.74668	1.21297	1.19380	1.19380	1.16159	
October 17 2016	240.75332	1.21300	1.19383	1.19383	1.16162	
October 18 2016	240.75997	1.21303	1.19386	1.19386	1.16165	
October 19 2016	240.76661	1.21307	1.19390	1.19390	1.16168	
October 20 2016	240.77326	1.21310	1.19393	1.19393	1.16172	
October 21 2016	240.77990	1.21313	1.19396	1.19396	1.16175	
October 22 2016	240.78655	1.21317	1.19400	1.19400	1.16178	
October 23 2016	240.79319	1.21320	1.19403	1.19403	1.16181	
October 24 2016	240.79984	1.21324	1.19406	1.19406	1.16185	
October 25 2016	240.80648	1.21327	1.19409	1.19409	1.16188	
October 26 2016	240.81313	1.21330	1.19413	1.19413	1.16191	
October 27 2016	240.81977	1.21334	1.19416	1.19416	1.16194	
October 28 2016	240.82642	1.21337	1.19419	1.19419	1.16197	
October 29 2016	240.83306	1.21340	1.19423	1.19423	1.16201	
October 30 2016	240.83971	1.21344	1.19426	1.19426	1.16204	
October 31 2016	240.84635	1.21347	1.19429	1.19429	1.16207	
CPI-U (NSA) for:	June 2016	241.038	July 2016	240.647	August 2016	240.853

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2016

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			1-5/8% 10-Year TIPS Series A-2018 912828HN3 January 15, 2008 January 15, 2008 April 15, 2008	1-3/4% 20-Year TIPS TIPS of January 2028 912810PV4 January 15, 2008 January 31, 2008 July 31, 2008	1-3/8% 10-Year TIPS Series D-2018 912828JE1 July 15, 2008 July 15, 2008 October 15, 2008	2-1/8% 10-Year TIPS Series A-2019 912828JX9 January 15, 2009 January 15, 2009 April 15, 2009
Maturity Date: Ref CPI on Dated Date:			January 15, 2018 209.49645	January 15, 2028 209.49645	July 15, 2018 215.63997	January 15, 2019 214.69971
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2016	240.64700	1.14869	1.14869	1.11597	1.12085	
October 2 2016	240.65365	1.14872	1.14872	1.11600	1.12088	
October 3 2016	240.66029	1.14876	1.14876	1.11603	1.12092	
October 4 2016	240.66694	1.14879	1.14879	1.11606	1.12095	
October 5 2016	240.67358	1.14882	1.14882	1.11609	1.12098	
October 6 2016	240.68023	1.14885	1.14885	1.11612	1.12101	
October 7 2016	240.68687	1.14888	1.14888	1.11615	1.12104	
October 8 2016	240.69352	1.14891	1.14891	1.11618	1.12107	
October 9 2016	240.70016	1.14895	1.14895	1.11621	1.12110	
October 10 2016	240.70681	1.14898	1.14898	1.11624	1.12113	
October 11 2016	240.71345	1.14901	1.14901	1.11627	1.12116	
October 12 2016	240.72010	1.14904	1.14904	1.11631	1.12119	
October 13 2016	240.72674	1.14907	1.14907	1.11634	1.12123	
October 14 2016	240.73339	1.14910	1.14910	1.11637	1.12126	
October 15 2016	240.74003	1.14914	1.14914	1.11640	1.12129	
October 16 2016	240.74668	1.14917	1.14917	1.11643	1.12132	
October 17 2016	240.75332	1.14920	1.14920	1.11646	1.12135	
October 18 2016	240.75997	1.14923	1.14923	1.11649	1.12138	
October 19 2016	240.76661	1.14926	1.14926	1.11652	1.12141	
October 20 2016	240.77326	1.14930	1.14930	1.11655	1.12144	
October 21 2016	240.77990	1.14933	1.14933	1.11658	1.12147	
October 22 2016	240.78655	1.14936	1.14936	1.11661	1.12150	
October 23 2016	240.79319	1.14939	1.14939	1.11664	1.12153	
October 24 2016	240.79984	1.14942	1.14942	1.11668	1.12157	
October 25 2016	240.80648	1.14945	1.14945	1.11671	1.12160	
October 26 2016	240.81313	1.14949	1.14949	1.11674	1.12163	
October 27 2016	240.81977	1.14952	1.14952	1.11677	1.12166	
October 28 2016	240.82642	1.14955	1.14955	1.11680	1.12169	
October 29 2016	240.83306	1.14958	1.14958	1.11683	1.12172	
October 30 2016	240.83971	1.14961	1.14961	1.11686	1.12175	
October 31 2016	240.84635	1.14964	1.14964	1.11689	1.12178	
CPI-U (NSA) for:	June 2016	241.038	July 2016	240.647	August 2016	240.853

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2016

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			2-1/2% 20-Year TIPS TIPS of January 2029 912810PZ5 January 15, 2009 January 30, 2009 July 31, 2009	1-7/8% 10-Year TIPS Series D-2019 912828LA6 July 15, 2009 July 15, 2009 October 15, 2009	1-3/8% 10-Year TIPS Series A-2020 912828MF4 January 15, 2010 January 15, 2010 April 15, 2010	2-1/8% 30-Year TIPS TIPS of February 2040 912810QF8 February 15, 2010 February 26, 2010 August 31, 2010
Maturity Date: Ref CPI on Dated Date:			January 15, 2029 214.69971	July 15, 2019 213.51819	January 15, 2020 216.24610	February 15, 2040 216.13950
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2016	240.64700	1.12085	1.12706	1.11284	1.11339	
October 2 2016	240.65365	1.12088	1.12709	1.11287	1.11342	
October 3 2016	240.66029	1.12092	1.12712	1.11290	1.11345	
October 4 2016	240.66694	1.12095	1.12715	1.11293	1.11348	
October 5 2016	240.67358	1.12098	1.12718	1.11296	1.11351	
October 6 2016	240.68023	1.12101	1.12721	1.11299	1.11354	
October 7 2016	240.68687	1.12104	1.12724	1.11302	1.11357	
October 8 2016	240.69352	1.12107	1.12727	1.11305	1.11360	
October 9 2016	240.70016	1.12110	1.12731	1.11308	1.11363	
October 10 2016	240.70681	1.12113	1.12734	1.11312	1.11366	
October 11 2016	240.71345	1.12116	1.12737	1.11315	1.11369	
October 12 2016	240.72010	1.12119	1.12740	1.11318	1.11373	
October 13 2016	240.72674	1.12123	1.12743	1.11321	1.11376	
October 14 2016	240.73339	1.12126	1.12746	1.11324	1.11379	
October 15 2016	240.74003	1.12129	1.12749	1.11327	1.11382	
October 16 2016	240.74668	1.12132	1.12752	1.11330	1.11385	
October 17 2016	240.75332	1.12135	1.12755	1.11333	1.11388	
October 18 2016	240.75997	1.12138	1.12759	1.11336	1.11391	
October 19 2016	240.76661	1.12141	1.12762	1.11339	1.11394	
October 20 2016	240.77326	1.12144	1.12765	1.11342	1.11397	
October 21 2016	240.77990	1.12147	1.12768	1.11345	1.11400	
October 22 2016	240.78655	1.12150	1.12771	1.11348	1.11403	
October 23 2016	240.79319	1.12153	1.12774	1.11351	1.11406	
October 24 2016	240.79984	1.12157	1.12777	1.11355	1.11409	
October 25 2016	240.80648	1.12160	1.12780	1.11358	1.11413	
October 26 2016	240.81313	1.12163	1.12783	1.11361	1.11416	
October 27 2016	240.81977	1.12166	1.12787	1.11364	1.11419	
October 28 2016	240.82642	1.12169	1.12790	1.11367	1.11422	
October 29 2016	240.83306	1.12172	1.12793	1.11370	1.11425	
October 30 2016	240.83971	1.12175	1.12796	1.11373	1.11428	
October 31 2016	240.84635	1.12178	1.12799	1.11376	1.11431	
CPI-U (NSA) for:	June 2016	241.038	July 2016	240.647	August 2016	240.853

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2016

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			1-1/4% 10-Year TIPS Series D-2020 912828NM8 July 15, 2010 July 15, 2010 September 15, 2010 November 15, 2010	1-1/8% 10-Year TIPS Series A-2021 912828PP9 January 15, 2011 January 31, 2011 March 31, 2011 May 31, 2011	2-1/8% 30-Year TIPS TIPS of February 2041 912810QP6 February 15, 2011 February 28, 2011 June 30, 2011 October 31, 2011	0-5/8% 10-Year TIPS Series D-2021 912828QV5 July 15, 2011 July 29, 2011 September 30, 2011 November 30, 2011
Maturity Date: Ref CPI on Dated Date:			July 15, 2020 218.08532	January 15, 2021 218.75255	February 15, 2041 218.99100	July 15, 2021 225.38381
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2016	240.64700	1.10345	1.10009	1.09889	1.06772	
October 2 2016	240.65365	1.10348	1.10012	1.09892	1.06775	
October 3 2016	240.66029	1.10351	1.10015	1.09895	1.06778	
October 4 2016	240.66694	1.10354	1.10018	1.09898	1.06781	
October 5 2016	240.67358	1.10358	1.10021	1.09901	1.06784	
October 6 2016	240.68023	1.10361	1.10024	1.09904	1.06787	
October 7 2016	240.68687	1.10364	1.10027	1.09907	1.06790	
October 8 2016	240.69352	1.10367	1.10030	1.09910	1.06793	
October 9 2016	240.70016	1.10370	1.10033	1.09913	1.06796	
October 10 2016	240.70681	1.10373	1.10036	1.09916	1.06799	
October 11 2016	240.71345	1.10376	1.10039	1.09919	1.06802	
October 12 2016	240.72010	1.10379	1.10042	1.09922	1.06805	
October 13 2016	240.72674	1.10382	1.10045	1.09925	1.06807	
October 14 2016	240.73339	1.10385	1.10048	1.09928	1.06810	
October 15 2016	240.74003	1.10388	1.10051	1.09931	1.06813	
October 16 2016	240.74668	1.10391	1.10054	1.09935	1.06816	
October 17 2016	240.75332	1.10394	1.10057	1.09938	1.06819	
October 18 2016	240.75997	1.10397	1.10060	1.09941	1.06822	
October 19 2016	240.76661	1.10400	1.10063	1.09944	1.06825	
October 20 2016	240.77326	1.10403	1.10066	1.09947	1.06828	
October 21 2016	240.77990	1.10406	1.10070	1.09950	1.06831	
October 22 2016	240.78655	1.10409	1.10073	1.09953	1.06834	
October 23 2016	240.79319	1.10412	1.10076	1.09956	1.06837	
October 24 2016	240.79984	1.10415	1.10079	1.09959	1.06840	
October 25 2016	240.80648	1.10418	1.10082	1.09962	1.06843	
October 26 2016	240.81313	1.10422	1.10085	1.09965	1.06846	
October 27 2016	240.81977	1.10425	1.10088	1.09968	1.06849	
October 28 2016	240.82642	1.10428	1.10091	1.09971	1.06852	
October 29 2016	240.83306	1.10431	1.10094	1.09974	1.06855	
October 30 2016	240.83971	1.10434	1.10097	1.09977	1.06858	
October 31 2016	240.84635	1.10437	1.10100	1.09980	1.06861	
CPI-U (NSA) for:	June 2016	241.038	July 2016	240.647	August 2016	240.853

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2016

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-1/8% 10-Year TIPS Series A-2022 912828SA9 January 15, 2012 February 29, 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	0-1/8% 5-Year TIPS Series X-2017 912828SQ4 April 15, 2012 April 30, 2012 August 31, 2012 December 31, 2012	0-1/8% 10-Year TIPS Series D-2022 912828TE0 July 15, 2012 July 31, 2012 September 28, 2012 November 30, 2012
Maturity Date: Ref CPI on Dated Date:			January 15, 2022 226.33474	February 15, 2042 225.96062	April 15, 2017 227.13073	July 15, 2022 229.96306
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2016	240.64700	1.06323	1.06500	1.05951	1.04646	
October 2 2016	240.65365	1.06326	1.06502	1.05954	1.04649	
October 3 2016	240.66029	1.06329	1.06505	1.05957	1.04652	
October 4 2016	240.66694	1.06332	1.06508	1.05960	1.04655	
October 5 2016	240.67358	1.06335	1.06511	1.05963	1.04657	
October 6 2016	240.68023	1.06338	1.06514	1.05966	1.04660	
October 7 2016	240.68687	1.06341	1.06517	1.05968	1.04663	
October 8 2016	240.69352	1.06344	1.06520	1.05971	1.04666	
October 9 2016	240.70016	1.06347	1.06523	1.05974	1.04669	
October 10 2016	240.70681	1.06350	1.06526	1.05977	1.04672	
October 11 2016	240.71345	1.06353	1.06529	1.05980	1.04675	
October 12 2016	240.72010	1.06356	1.06532	1.05983	1.04678	
October 13 2016	240.72674	1.06359	1.06535	1.05986	1.04681	
October 14 2016	240.73339	1.06362	1.06538	1.05989	1.04684	
October 15 2016	240.74003	1.06365	1.06541	1.05992	1.04686	
October 16 2016	240.74668	1.06368	1.06544	1.05995	1.04689	
October 17 2016	240.75332	1.06370	1.06547	1.05998	1.04692	
October 18 2016	240.75997	1.06373	1.06550	1.06001	1.04695	
October 19 2016	240.76661	1.06376	1.06552	1.06004	1.04698	
October 20 2016	240.77326	1.06379	1.06555	1.06006	1.04701	
October 21 2016	240.77990	1.06382	1.06558	1.06009	1.04704	
October 22 2016	240.78655	1.06385	1.06561	1.06012	1.04707	
October 23 2016	240.79319	1.06388	1.06564	1.06015	1.04710	
October 24 2016	240.79984	1.06391	1.06567	1.06018	1.04712	
October 25 2016	240.80648	1.06394	1.06570	1.06021	1.04715	
October 26 2016	240.81313	1.06397	1.06573	1.06024	1.04718	
October 27 2016	240.81977	1.06400	1.06576	1.06027	1.04721	
October 28 2016	240.82642	1.06403	1.06579	1.06030	1.04724	
October 29 2016	240.83306	1.06406	1.06582	1.06033	1.04727	
October 30 2016	240.83971	1.06409	1.06585	1.06036	1.04730	
October 31 2016	240.84635	1.06412	1.06588	1.06039	1.04733	
CPI-U (NSA) for:	June 2016	241.038	July 2016	240.647	August 2016	240.853

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2016

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-1/8% 5-Year TIPS Series X-2018 912828UX6 April 15, 2013 April 30, 2013 August 30, 2013 December 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:			January 15, 2023 230.82203	February 15, 2043 229.91100	April 15, 2018 231.16013	July 15, 2023 232.71797
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2016	240.64700	1.04257	1.04670	1.04104	1.03407	
October 2 2016	240.65365	1.04259	1.04673	1.04107	1.03410	
October 3 2016	240.66029	1.04262	1.04675	1.04110	1.03413	
October 4 2016	240.66694	1.04265	1.04678	1.04113	1.03416	
October 5 2016	240.67358	1.04268	1.04681	1.04116	1.03419	
October 6 2016	240.68023	1.04271	1.04684	1.04118	1.03421	
October 7 2016	240.68687	1.04274	1.04687	1.04121	1.03424	
October 8 2016	240.69352	1.04277	1.04690	1.04124	1.03427	
October 9 2016	240.70016	1.04280	1.04693	1.04127	1.03430	
October 10 2016	240.70681	1.04282	1.04696	1.04130	1.03433	
October 11 2016	240.71345	1.04285	1.04699	1.04133	1.03436	
October 12 2016	240.72010	1.04288	1.04701	1.04136	1.03439	
October 13 2016	240.72674	1.04291	1.04704	1.04139	1.03441	
October 14 2016	240.73339	1.04294	1.04707	1.04141	1.03444	
October 15 2016	240.74003	1.04297	1.04710	1.04144	1.03447	
October 16 2016	240.74668	1.04300	1.04713	1.04147	1.03450	
October 17 2016	240.75332	1.04303	1.04716	1.04150	1.03453	
October 18 2016	240.75997	1.04305	1.04719	1.04153	1.03456	
October 19 2016	240.76661	1.04308	1.04722	1.04156	1.03459	
October 20 2016	240.77326	1.04311	1.04725	1.04159	1.03461	
October 21 2016	240.77990	1.04314	1.04727	1.04162	1.03464	
October 22 2016	240.78655	1.04317	1.04730	1.04164	1.03467	
October 23 2016	240.79319	1.04320	1.04733	1.04167	1.03470	
October 24 2016	240.79984	1.04323	1.04736	1.04170	1.03473	
October 25 2016	240.80648	1.04326	1.04739	1.04173	1.03476	
October 26 2016	240.81313	1.04328	1.04742	1.04176	1.03479	
October 27 2016	240.81977	1.04331	1.04745	1.04179	1.03481	
October 28 2016	240.82642	1.04334	1.04748	1.04182	1.03484	
October 29 2016	240.83306	1.04337	1.04751	1.04185	1.03487	
October 30 2016	240.83971	1.04340	1.04753	1.04187	1.03490	
October 31 2016	240.84635	1.04343	1.04756	1.04190	1.03493	
CPI-U (NSA) for:			June 2016 241.038	July 2016 240.647	August 2016 240.853	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2016

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% 5-Year TIPS Series X-2019 912828C99 April 15, 2014 April 30, 2014 August 29, 2014 December 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:			January 15, 2024 233.33058	February 15, 2044 233.05900	April 15, 2019 234.31967	July 15, 2024 237.44594
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2016	240.64700	1.03136	1.03256	1.02700	1.01348	
October 2 2016	240.65365	1.03138	1.03259	1.02703	1.01351	
October 3 2016	240.66029	1.03141	1.03262	1.02706	1.01354	
October 4 2016	240.66694	1.03144	1.03264	1.02709	1.01357	
October 5 2016	240.67358	1.03147	1.03267	1.02712	1.01359	
October 6 2016	240.68023	1.03150	1.03270	1.02714	1.01362	
October 7 2016	240.68687	1.03153	1.03273	1.02717	1.01365	
October 8 2016	240.69352	1.03156	1.03276	1.02720	1.01368	
October 9 2016	240.70016	1.03158	1.03279	1.02723	1.01371	
October 10 2016	240.70681	1.03161	1.03281	1.02726	1.01373	
October 11 2016	240.71345	1.03164	1.03284	1.02729	1.01376	
October 12 2016	240.72010	1.03167	1.03287	1.02731	1.01379	
October 13 2016	240.72674	1.03170	1.03290	1.02734	1.01382	
October 14 2016	240.73339	1.03173	1.03293	1.02737	1.01385	
October 15 2016	240.74003	1.03176	1.03296	1.02740	1.01387	
October 16 2016	240.74668	1.03178	1.03299	1.02743	1.01390	
October 17 2016	240.75332	1.03181	1.03301	1.02746	1.01393	
October 18 2016	240.75997	1.03184	1.03304	1.02749	1.01396	
October 19 2016	240.76661	1.03187	1.03307	1.02751	1.01398	
October 20 2016	240.77326	1.03190	1.03310	1.02754	1.01401	
October 21 2016	240.77990	1.03193	1.03313	1.02757	1.01404	
October 22 2016	240.78655	1.03195	1.03316	1.02760	1.01407	
October 23 2016	240.79319	1.03198	1.03319	1.02763	1.01410	
October 24 2016	240.79984	1.03201	1.03321	1.02766	1.01412	
October 25 2016	240.80648	1.03204	1.03324	1.02768	1.01415	
October 26 2016	240.81313	1.03207	1.03327	1.02771	1.01418	
October 27 2016	240.81977	1.03210	1.03330	1.02774	1.01421	
October 28 2016	240.82642	1.03213	1.03333	1.02777	1.01424	
October 29 2016	240.83306	1.03215	1.03336	1.02780	1.01426	
October 30 2016	240.83971	1.03218	1.03339	1.02783	1.01429	
October 31 2016	240.84635	1.03221	1.03341	1.02785	1.01432	
CPI-U (NSA) for:	June 2016	241.038	July 2016	240.647	August 2016	240.853

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2016

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 February 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	0-1/8% 5-Year TIPS Series X-2020 912828K33 April 15, 2015 April 30, 2015 August 31, 2015 December 31, 2015	0-3/8% 10-Year TIPS Series D-2025 912828XL9 July 15, 2015 July 31, 2015 September 30, 2015 November 30, 2015
Maturity Date: Ref CPI on Dated Date:			January 15, 2025 236.85403	February 15, 2045 235.48150	April 15, 2020 234.18067	July 15, 2025 237.14365
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2016	240.64700	1.01601	1.02194	1.02761	1.01477	
October 2 2016	240.65365	1.01604	1.02196	1.02764	1.01480	
October 3 2016	240.66029	1.01607	1.02199	1.02767	1.01483	
October 4 2016	240.66694	1.01610	1.02202	1.02770	1.01486	
October 5 2016	240.67358	1.01613	1.02205	1.02773	1.01489	
October 6 2016	240.68023	1.01615	1.02208	1.02775	1.01491	
October 7 2016	240.68687	1.01618	1.02211	1.02778	1.01494	
October 8 2016	240.69352	1.01621	1.02213	1.02781	1.01497	
October 9 2016	240.70016	1.01624	1.02216	1.02784	1.01500	
October 10 2016	240.70681	1.01627	1.02219	1.02787	1.01503	
October 11 2016	240.71345	1.01629	1.02222	1.02790	1.01505	
October 12 2016	240.72010	1.01632	1.02225	1.02792	1.01508	
October 13 2016	240.72674	1.01635	1.02227	1.02795	1.01511	
October 14 2016	240.73339	1.01638	1.02230	1.02798	1.01514	
October 15 2016	240.74003	1.01641	1.02233	1.02801	1.01517	
October 16 2016	240.74668	1.01643	1.02236	1.02804	1.01519	
October 17 2016	240.75332	1.01646	1.02239	1.02807	1.01522	
October 18 2016	240.75997	1.01649	1.02242	1.02809	1.01525	
October 19 2016	240.76661	1.01652	1.02244	1.02812	1.01528	
October 20 2016	240.77326	1.01655	1.02247	1.02815	1.01531	
October 21 2016	240.77990	1.01658	1.02250	1.02818	1.01533	
October 22 2016	240.78655	1.01660	1.02253	1.02821	1.01536	
October 23 2016	240.79319	1.01663	1.02256	1.02824	1.01539	
October 24 2016	240.79984	1.01666	1.02258	1.02827	1.01542	
October 25 2016	240.80648	1.01669	1.02261	1.02829	1.01545	
October 26 2016	240.81313	1.01672	1.02264	1.02832	1.01547	
October 27 2016	240.81977	1.01674	1.02267	1.02835	1.01550	
October 28 2016	240.82642	1.01677	1.02270	1.02838	1.01553	
October 29 2016	240.83306	1.01680	1.02273	1.02841	1.01556	
October 30 2016	240.83971	1.01683	1.02275	1.02844	1.01559	
October 31 2016	240.84635	1.01686	1.02278	1.02846	1.01561	
CPI-U (NSA) for:			June 2016 241.038	July 2016 240.647	August 2016 240.853	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2016

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			0-5/8% 10-Year TIPS Series A-2026 912828N71 January 15, 2016 January 29, 2016 March 31, 2016 May 31, 2016	1% 30-Year TIPS TIPS of February 2046 912810RR1 February 15, 2016 February 29, 2016 June 30, 2016	0-1/8% 5-Year TIPS Series X-2021 912828Q60 April 15, 2016 April 29, 2016 August 31, 2016	0-1/8% 10-Year TIPS Series D-2026 912828S50 July 15, 2016 July 29, 2016 September 30, 2016
Maturity Date: Ref CPI on Dated Date:			January 15, 2026 237.61129	February 15, 2046 236.94448	April 15, 2021 237.00700	July 15, 2026 239.70132
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2016	240.64700	1.01278	1.01563	1.01536	1.00395	
October 2 2016	240.65365	1.01280	1.01565	1.01539	1.00397	
October 3 2016	240.66029	1.01283	1.01568	1.01541	1.00400	
October 4 2016	240.66694	1.01286	1.01571	1.01544	1.00403	
October 5 2016	240.67358	1.01289	1.01574	1.01547	1.00406	
October 6 2016	240.68023	1.01292	1.01577	1.01550	1.00408	
October 7 2016	240.68687	1.01294	1.01579	1.01553	1.00411	
October 8 2016	240.69352	1.01297	1.01582	1.01555	1.00414	
October 9 2016	240.70016	1.01300	1.01585	1.01558	1.00417	
October 10 2016	240.70681	1.01303	1.01588	1.01561	1.00419	
October 11 2016	240.71345	1.01306	1.01591	1.01564	1.00422	
October 12 2016	240.72010	1.01308	1.01593	1.01567	1.00425	
October 13 2016	240.72674	1.01311	1.01596	1.01569	1.00428	
October 14 2016	240.73339	1.01314	1.01599	1.01572	1.00431	
October 15 2016	240.74003	1.01317	1.01602	1.01575	1.00433	
October 16 2016	240.74668	1.01320	1.01605	1.01578	1.00436	
October 17 2016	240.75332	1.01322	1.01607	1.01581	1.00439	
October 18 2016	240.75997	1.01325	1.01610	1.01583	1.00442	
October 19 2016	240.76661	1.01328	1.01613	1.01586	1.00444	
October 20 2016	240.77326	1.01331	1.01616	1.01589	1.00447	
October 21 2016	240.77990	1.01334	1.01619	1.01592	1.00450	
October 22 2016	240.78655	1.01336	1.01622	1.01595	1.00453	
October 23 2016	240.79319	1.01339	1.01624	1.01598	1.00456	
October 24 2016	240.79984	1.01342	1.01627	1.01600	1.00458	
October 25 2016	240.80648	1.01345	1.01630	1.01603	1.00461	
October 26 2016	240.81313	1.01348	1.01633	1.01606	1.00464	
October 27 2016	240.81977	1.01350	1.01636	1.01609	1.00467	
October 28 2016	240.82642	1.01353	1.01638	1.01612	1.00469	
October 29 2016	240.83306	1.01356	1.01641	1.01614	1.00472	
October 30 2016	240.83971	1.01359	1.01644	1.01617	1.00475	
October 31 2016	240.84635	1.01361	1.01647	1.01620	1.00478	
CPI-U (NSA) for:			June 2016 241.038	July 2016 240.647	August 2016 240.853	