

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2017

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 2017	244.78600	1.51345	1.48903	1.37908	1.29862	
October 2 2017	244.80965	1.51360	1.48917	1.37921	1.29875	
October 3 2017	244.83329	1.51375	1.48931	1.37934	1.29887	
October 4 2017	244.85694	1.51389	1.48946	1.37948	1.29900	
October 5 2017	244.88058	1.51404	1.48960	1.37961	1.29912	
October 6 2017	244.90423	1.51418	1.48975	1.37974	1.29925	
October 7 2017	244.92787	1.51433	1.48989	1.37988	1.29937	
October 8 2017	244.95152	1.51448	1.49003	1.38001	1.29950	
October 9 2017	244.97516	1.51462	1.49018	1.38014	1.29963	
October 10 2017	244.99881	1.51477	1.49032	1.38027	1.29975	
October 11 2017	245.02245	1.51492	1.49046	1.38041	1.29988	
October 12 2017	245.04610	1.51506	1.49061	1.38054	1.30000	
October 13 2017	245.06974	1.51521	1.49075	1.38067	1.30013	
October 14 2017	245.09339	1.51535	1.49090	1.38081	1.30025	
October 15 2017	245.11703	1.51550	1.49104	1.38094	1.30038	
October 16 2017	245.14068	1.51565	1.49118	1.38107	1.30050	
October 17 2017	245.16432	1.51579	1.49133	1.38121	1.30063	
October 18 2017	245.18797	1.51594	1.49147	1.38134	1.30075	
October 19 2017	245.21161	1.51609	1.49162	1.38147	1.30088	
October 20 2017	245.23526	1.51623	1.49176	1.38161	1.30101	
October 21 2017	245.25890	1.51638	1.49190	1.38174	1.30113	
October 22 2017	245.28255	1.51652	1.49205	1.38187	1.30126	
October 23 2017	245.30619	1.51667	1.49219	1.38201	1.30138	
October 24 2017	245.32984	1.51682	1.49233	1.38214	1.30151	
October 25 2017	245.35348	1.51696	1.49248	1.38227	1.30163	
October 26 2017	245.37713	1.51711	1.49262	1.38241	1.30176	
October 27 2017	245.40077	1.51725	1.49277	1.38254	1.30188	
October 28 2017	245.42442	1.51740	1.49291	1.38267	1.30201	
October 29 2017	245.44806	1.51755	1.49305	1.38281	1.30213	
October 30 2017	245.47171	1.51769	1.49320	1.38294	1.30226	
October 31 2017	245.49535	1.51784	1.49334	1.38307	1.30238	
CPI-U (NSA) for:			June 2017 244.955	July 2017 244.786	August 2017 245.519	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2017

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	1-5/8% 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
Maturity Date: Ref CPI on Dated Date:			January 15, 2026 198.47742	January 15, 2027 201.66452	January 15, 2018 209.49645	January 15, 2028 209.49645
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2017	244.78600	1.23332	1.21383	1.16845	1.16845	
October 2 2017	244.80965	1.23344	1.21395	1.16856	1.16856	
October 3 2017	244.83329	1.23356	1.21406	1.16868	1.16868	
October 4 2017	244.85694	1.23368	1.21418	1.16879	1.16879	
October 5 2017	244.88058	1.23380	1.21430	1.16890	1.16890	
October 6 2017	244.90423	1.23391	1.21441	1.16901	1.16901	
October 7 2017	244.92787	1.23403	1.21453	1.16913	1.16913	
October 8 2017	244.95152	1.23415	1.21465	1.16924	1.16924	
October 9 2017	244.97516	1.23427	1.21477	1.16935	1.16935	
October 10 2017	244.99881	1.23439	1.21488	1.16947	1.16947	
October 11 2017	245.02245	1.23451	1.21500	1.16958	1.16958	
October 12 2017	245.04610	1.23463	1.21512	1.16969	1.16969	
October 13 2017	245.06974	1.23475	1.21523	1.16980	1.16980	
October 14 2017	245.09339	1.23487	1.21535	1.16992	1.16992	
October 15 2017	245.11703	1.23499	1.21547	1.17003	1.17003	
October 16 2017	245.14068	1.23511	1.21559	1.17014	1.17014	
October 17 2017	245.16432	1.23523	1.21570	1.17026	1.17026	
October 18 2017	245.18797	1.23534	1.21582	1.17037	1.17037	
October 19 2017	245.21161	1.23546	1.21594	1.17048	1.17048	
October 20 2017	245.23526	1.23558	1.21606	1.17059	1.17059	
October 21 2017	245.25890	1.23570	1.21617	1.17071	1.17071	
October 22 2017	245.28255	1.23582	1.21629	1.17082	1.17082	
October 23 2017	245.30619	1.23594	1.21641	1.17093	1.17093	
October 24 2017	245.32984	1.23606	1.21652	1.17105	1.17105	
October 25 2017	245.35348	1.23618	1.21664	1.17116	1.17116	
October 26 2017	245.37713	1.23630	1.21676	1.17127	1.17127	
October 27 2017	245.40077	1.23642	1.21688	1.17138	1.17138	
October 28 2017	245.42442	1.23654	1.21699	1.17150	1.17150	
October 29 2017	245.44806	1.23665	1.21711	1.17161	1.17161	
October 30 2017	245.47171	1.23677	1.21723	1.17172	1.17172	
October 31 2017	245.49535	1.23689	1.21735	1.17184	1.17184	
CPI-U (NSA) for:	June 2017	244.955	July 2017	244.786	August 2017	245.519

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2017

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	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	
Maturity Date: Ref CPI on Dated Date:			July 15, 2018 215.63997	January 15, 2019 214.69971	January 15, 2029 214.69971	July 15, 2019 213.51819	
Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio
October	1	2017	244.78600	1.13516	1.14013	1.14013	1.14644
October	2	2017	244.80965	1.13527	1.14024	1.14024	1.14655
October	3	2017	244.83329	1.13538	1.14035	1.14035	1.14666
October	4	2017	244.85694	1.13549	1.14046	1.14046	1.14677
October	5	2017	244.88058	1.13560	1.14057	1.14057	1.14688
October	6	2017	244.90423	1.13571	1.14068	1.14068	1.14699
October	7	2017	244.92787	1.13582	1.14079	1.14079	1.14711
October	8	2017	244.95152	1.13593	1.14090	1.14090	1.14722
October	9	2017	244.97516	1.13604	1.14101	1.14101	1.14733
October	10	2017	244.99881	1.13615	1.14112	1.14112	1.14744
October	11	2017	245.02245	1.13626	1.14123	1.14123	1.14755
October	12	2017	245.04610	1.13637	1.14134	1.14134	1.14766
October	13	2017	245.06974	1.13648	1.14145	1.14145	1.14777
October	14	2017	245.09339	1.13659	1.14156	1.14156	1.14788
October	15	2017	245.11703	1.13670	1.14167	1.14167	1.14799
October	16	2017	245.14068	1.13681	1.14178	1.14178	1.14810
October	17	2017	245.16432	1.13692	1.14189	1.14189	1.14821
October	18	2017	245.18797	1.13702	1.14200	1.14200	1.14832
October	19	2017	245.21161	1.13713	1.14211	1.14211	1.14843
October	20	2017	245.23526	1.13724	1.14222	1.14222	1.14855
October	21	2017	245.25890	1.13735	1.14233	1.14233	1.14866
October	22	2017	245.28255	1.13746	1.14244	1.14244	1.14877
October	23	2017	245.30619	1.13757	1.14255	1.14255	1.14888
October	24	2017	245.32984	1.13768	1.14266	1.14266	1.14899
October	25	2017	245.35348	1.13779	1.14278	1.14278	1.14910
October	26	2017	245.37713	1.13790	1.14289	1.14289	1.14921
October	27	2017	245.40077	1.13801	1.14300	1.14300	1.14932
October	28	2017	245.42442	1.13812	1.14311	1.14311	1.14943
October	29	2017	245.44806	1.13823	1.14322	1.14322	1.14954
October	30	2017	245.47171	1.13834	1.14333	1.14333	1.14965
October	31	2017	245.49535	1.13845	1.14344	1.14344	1.14976
CPI-U (NSA) for:			June 2017 244.955	July 2017 244.786	August 2017 245.519		

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October 2017

Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October	1	2017	244.78600	1.13198	1.13254	1.12243	1.11901	
October	2	2017	244.80965	1.13209	1.13265	1.12254	1.11912	
October	3	2017	244.83329	1.13220	1.13276	1.12265	1.11922	
October	4	2017	244.85694	1.13231	1.13287	1.12276	1.11933	
October	5	2017	244.88058	1.13242	1.13297	1.12287	1.11944	
October	6	2017	244.90423	1.13253	1.13308	1.12297	1.11955	
October	7	2017	244.92787	1.13263	1.13319	1.12308	1.11966	
October	8	2017	244.95152	1.13274	1.13330	1.12319	1.11977	
October	9	2017	244.97516	1.13285	1.13341	1.12330	1.11987	
October	10	2017	244.99881	1.13296	1.13352	1.12341	1.11998	
October	11	2017	245.02245	1.13307	1.13363	1.12352	1.12009	
October	12	2017	245.04610	1.13318	1.13374	1.12362	1.12020	
October	13	2017	245.06974	1.13329	1.13385	1.12373	1.12031	
October	14	2017	245.09339	1.13340	1.13396	1.12384	1.12041	
October	15	2017	245.11703	1.13351	1.13407	1.12395	1.12052	
October	16	2017	245.14068	1.13362	1.13418	1.12406	1.12063	
October	17	2017	245.16432	1.13373	1.13429	1.12417	1.12074	
October	18	2017	245.18797	1.13384	1.13440	1.12428	1.12085	
October	19	2017	245.21161	1.13395	1.13451	1.12438	1.12095	
October	20	2017	245.23526	1.13406	1.13462	1.12449	1.12106	
October	21	2017	245.25890	1.13417	1.13473	1.12460	1.12117	
October	22	2017	245.28255	1.13428	1.13483	1.12471	1.12128	
October	23	2017	245.30619	1.13438	1.13494	1.12482	1.12139	
October	24	2017	245.32984	1.13449	1.13505	1.12493	1.12149	
October	25	2017	245.35348	1.13460	1.13516	1.12503	1.12160	
October	26	2017	245.37713	1.13471	1.13527	1.12514	1.12171	
October	27	2017	245.40077	1.13482	1.13538	1.12525	1.12182	
October	28	2017	245.42442	1.13493	1.13549	1.12536	1.12193	
October	29	2017	245.44806	1.13504	1.13560	1.12547	1.12204	
October	30	2017	245.47171	1.13515	1.13571	1.12558	1.12214	
October	31	2017	245.49535	1.13526	1.13582	1.12568	1.12225	
CPI-U (NSA) for:			June 2017	244.955	July 2017	244.786	August 2017	245.519

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2017

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			2-1/8% 30-Year TIPS TIPS of February 2041 912810QP6 February 15, 2011 February 28, 2011 June 30, 2011 October 31, 2011	0-5/8% 10-Year TIPS Series D-2021 912828QV5 July 15, 2011 July 29, 2011 September 30, 2011 November 30, 2011	0-1/8% 10-Year TIPS Series A-2022 912828SA9 January 15, 2012 January 31, 2012 March 30, 2012 May 31, 2012	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, 2041 218.99100	July 15, 2021 225.38381	January 15, 2022 226.33474	February 15, 2042 225.96062
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2017	244.78600	1.11779	1.08609	1.08152	1.08331	
October 2 2017	244.80965	1.11790	1.08619	1.08163	1.08342	
October 3 2017	244.83329	1.11801	1.08629	1.08173	1.08352	
October 4 2017	244.85694	1.11811	1.08640	1.08184	1.08363	
October 5 2017	244.88058	1.11822	1.08650	1.08194	1.08373	
October 6 2017	244.90423	1.11833	1.08661	1.08204	1.08384	
October 7 2017	244.92787	1.11844	1.08671	1.08215	1.08394	
October 8 2017	244.95152	1.11855	1.08682	1.08225	1.08405	
October 9 2017	244.97516	1.11865	1.08692	1.08236	1.08415	
October 10 2017	244.99881	1.11876	1.08703	1.08246	1.08425	
October 11 2017	245.02245	1.11887	1.08713	1.08257	1.08436	
October 12 2017	245.04610	1.11898	1.08724	1.08267	1.08446	
October 13 2017	245.06974	1.11909	1.08734	1.08278	1.08457	
October 14 2017	245.09339	1.11919	1.08745	1.08288	1.08467	
October 15 2017	245.11703	1.11930	1.08755	1.08298	1.08478	
October 16 2017	245.14068	1.11941	1.08766	1.08309	1.08488	
October 17 2017	245.16432	1.11952	1.08776	1.08319	1.08499	
October 18 2017	245.18797	1.11963	1.08787	1.08330	1.08509	
October 19 2017	245.21161	1.11973	1.08797	1.08340	1.08520	
October 20 2017	245.23526	1.11984	1.08808	1.08351	1.08530	
October 21 2017	245.25890	1.11995	1.08818	1.08361	1.08541	
October 22 2017	245.28255	1.12006	1.08829	1.08372	1.08551	
October 23 2017	245.30619	1.12017	1.08839	1.08382	1.08561	
October 24 2017	245.32984	1.12027	1.08850	1.08392	1.08572	
October 25 2017	245.35348	1.12038	1.08860	1.08403	1.08582	
October 26 2017	245.37713	1.12049	1.08871	1.08413	1.08593	
October 27 2017	245.40077	1.12060	1.08881	1.08424	1.08603	
October 28 2017	245.42442	1.12071	1.08892	1.08434	1.08614	
October 29 2017	245.44806	1.12081	1.08902	1.08445	1.08624	
October 30 2017	245.47171	1.12092	1.08913	1.08455	1.08635	
October 31 2017	245.49535	1.12103	1.08923	1.08466	1.08645	
CPI-U (NSA) for:	June 2017	244.955	July 2017	244.786	August 2017	245.519

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October 2017

Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October	1	2017	244.78600	1.06446	1.06050	1.06470	1.05895	
October	2	2017	244.80965	1.06456	1.06060	1.06480	1.05905	
October	3	2017	244.83329	1.06466	1.06070	1.06490	1.05915	
October	4	2017	244.85694	1.06477	1.06080	1.06501	1.05925	
October	5	2017	244.88058	1.06487	1.06091	1.06511	1.05935	
October	6	2017	244.90423	1.06497	1.06101	1.06521	1.05946	
October	7	2017	244.92787	1.06507	1.06111	1.06532	1.05956	
October	8	2017	244.95152	1.06518	1.06121	1.06542	1.05966	
October	9	2017	244.97516	1.06528	1.06132	1.06552	1.05976	
October	10	2017	244.99881	1.06538	1.06142	1.06562	1.05987	
October	11	2017	245.02245	1.06549	1.06152	1.06573	1.05997	
October	12	2017	245.04610	1.06559	1.06162	1.06583	1.06007	
October	13	2017	245.06974	1.06569	1.06173	1.06593	1.06017	
October	14	2017	245.09339	1.06579	1.06183	1.06604	1.06028	
October	15	2017	245.11703	1.06590	1.06193	1.06614	1.06038	
October	16	2017	245.14068	1.06600	1.06203	1.06624	1.06048	
October	17	2017	245.16432	1.06610	1.06214	1.06634	1.06058	
October	18	2017	245.18797	1.06621	1.06224	1.06645	1.06068	
October	19	2017	245.21161	1.06631	1.06234	1.06655	1.06079	
October	20	2017	245.23526	1.06641	1.06244	1.06665	1.06089	
October	21	2017	245.25890	1.06651	1.06255	1.06676	1.06099	
October	22	2017	245.28255	1.06662	1.06265	1.06686	1.06109	
October	23	2017	245.30619	1.06672	1.06275	1.06696	1.06120	
October	24	2017	245.32984	1.06682	1.06285	1.06706	1.06130	
October	25	2017	245.35348	1.06693	1.06296	1.06717	1.06140	
October	26	2017	245.37713	1.06703	1.06306	1.06727	1.06150	
October	27	2017	245.40077	1.06713	1.06316	1.06737	1.06161	
October	28	2017	245.42442	1.06723	1.06326	1.06748	1.06171	
October	29	2017	245.44806	1.06734	1.06336	1.06758	1.06181	
October	30	2017	245.47171	1.06744	1.06347	1.06768	1.06191	
October	31	2017	245.49535	1.06754	1.06357	1.06778	1.06201	
CPI-U (NSA) for:			June 2017	244.955	July 2017	244.786	August 2017	245.519

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Ref CPI and Index Ratios for
October 2017

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% 5-Year TIPS Series X-2019 912828C99 April 15, 2014 April 30, 2014 August 29, 2014 December 31, 2014
Maturity Date: Ref CPI on Dated Date:			July 15, 2023 232.71797	January 15, 2024 233.33058	February 15, 2044 233.05900	April 15, 2019 234.31967
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2017	244.78600	1.05186	1.04910	1.05032	1.04467	
October 2 2017	244.80965	1.05196	1.04920	1.05042	1.04477	
October 3 2017	244.83329	1.05206	1.04930	1.05052	1.04487	
October 4 2017	244.85694	1.05216	1.04940	1.05062	1.04497	
October 5 2017	244.88058	1.05226	1.04950	1.05072	1.04507	
October 6 2017	244.90423	1.05236	1.04960	1.05083	1.04517	
October 7 2017	244.92787	1.05247	1.04970	1.05093	1.04527	
October 8 2017	244.95152	1.05257	1.04980	1.05103	1.04537	
October 9 2017	244.97516	1.05267	1.04991	1.05113	1.04547	
October 10 2017	244.99881	1.05277	1.05001	1.05123	1.04558	
October 11 2017	245.02245	1.05287	1.05011	1.05133	1.04568	
October 12 2017	245.04610	1.05297	1.05021	1.05143	1.04578	
October 13 2017	245.06974	1.05308	1.05031	1.05154	1.04588	
October 14 2017	245.09339	1.05318	1.05041	1.05164	1.04598	
October 15 2017	245.11703	1.05328	1.05051	1.05174	1.04608	
October 16 2017	245.14068	1.05338	1.05062	1.05184	1.04618	
October 17 2017	245.16432	1.05348	1.05072	1.05194	1.04628	
October 18 2017	245.18797	1.05358	1.05082	1.05204	1.04638	
October 19 2017	245.21161	1.05369	1.05092	1.05214	1.04648	
October 20 2017	245.23526	1.05379	1.05102	1.05225	1.04658	
October 21 2017	245.25890	1.05389	1.05112	1.05235	1.04669	
October 22 2017	245.28255	1.05399	1.05122	1.05245	1.04679	
October 23 2017	245.30619	1.05409	1.05132	1.05255	1.04689	
October 24 2017	245.32984	1.05419	1.05143	1.05265	1.04699	
October 25 2017	245.35348	1.05430	1.05153	1.05275	1.04709	
October 26 2017	245.37713	1.05440	1.05163	1.05285	1.04719	
October 27 2017	245.40077	1.05450	1.05173	1.05296	1.04729	
October 28 2017	245.42442	1.05460	1.05183	1.05306	1.04739	
October 29 2017	245.44806	1.05470	1.05193	1.05316	1.04749	
October 30 2017	245.47171	1.05480	1.05203	1.05326	1.04759	
October 31 2017	245.49535	1.05490	1.05214	1.05336	1.04769	
CPI-U (NSA) for:	June 2017	244.955	July 2017	244.786	August 2017	245.519

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2017

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	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
Maturity Date: Ref CPI on Dated Date:			July 15, 2024 237.44594	January 15, 2025 236.85403	February 15, 2045 235.48150	April 15, 2020 234.18067
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2017	244.78600	1.03091	1.03349	1.03951	1.04529	
October 2 2017	244.80965	1.03101	1.03359	1.03961	1.04539	
October 3 2017	244.83329	1.03111	1.03369	1.03971	1.04549	
October 4 2017	244.85694	1.03121	1.03379	1.03981	1.04559	
October 5 2017	244.88058	1.03131	1.03389	1.03991	1.04569	
October 6 2017	244.90423	1.03141	1.03399	1.04001	1.04579	
October 7 2017	244.92787	1.03151	1.03409	1.04012	1.04589	
October 8 2017	244.95152	1.03161	1.03419	1.04022	1.04599	
October 9 2017	244.97516	1.03171	1.03429	1.04032	1.04609	
October 10 2017	244.99881	1.03181	1.03439	1.04042	1.04620	
October 11 2017	245.02245	1.03191	1.03449	1.04052	1.04630	
October 12 2017	245.04610	1.03201	1.03459	1.04062	1.04640	
October 13 2017	245.06974	1.03211	1.03469	1.04072	1.04650	
October 14 2017	245.09339	1.03221	1.03479	1.04082	1.04660	
October 15 2017	245.11703	1.03231	1.03489	1.04092	1.04670	
October 16 2017	245.14068	1.03241	1.03499	1.04102	1.04680	
October 17 2017	245.16432	1.03251	1.03509	1.04112	1.04690	
October 18 2017	245.18797	1.03261	1.03519	1.04122	1.04700	
October 19 2017	245.21161	1.03271	1.03529	1.04132	1.04710	
October 20 2017	245.23526	1.03280	1.03539	1.04142	1.04721	
October 21 2017	245.25890	1.03290	1.03549	1.04152	1.04731	
October 22 2017	245.28255	1.03300	1.03559	1.04162	1.04741	
October 23 2017	245.30619	1.03310	1.03569	1.04172	1.04751	
October 24 2017	245.32984	1.03320	1.03578	1.04182	1.04761	
October 25 2017	245.35348	1.03330	1.03588	1.04192	1.04771	
October 26 2017	245.37713	1.03340	1.03598	1.04202	1.04781	
October 27 2017	245.40077	1.03350	1.03608	1.04212	1.04791	
October 28 2017	245.42442	1.03360	1.03618	1.04222	1.04801	
October 29 2017	245.44806	1.03370	1.03628	1.04232	1.04811	
October 30 2017	245.47171	1.03380	1.03638	1.04242	1.04822	
October 31 2017	245.49535	1.03390	1.03648	1.04252	1.04832	
CPI-U (NSA) for:	June 2017	244.955	July 2017	244.786	August 2017	245.519

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2017

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-1/8% 5-Year TIPS Series X-2021 912828Q60 April 15, 2016 April 29, 2016 August 31, 2016 December 30, 2016
Maturity Date: Ref CPI on Dated Date:			July 15, 2025 237.14365	January 15, 2026 237.61129	February 15, 2046 236.94448	April 15, 2021 237.00700
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
October 1 2017	244.78600	1.03223	1.03020	1.03309	1.03282	
October 2 2017	244.80965	1.03233	1.03029	1.03319	1.03292	
October 3 2017	244.83329	1.03243	1.03039	1.03329	1.03302	
October 4 2017	244.85694	1.03253	1.03049	1.03339	1.03312	
October 5 2017	244.88058	1.03263	1.03059	1.03349	1.03322	
October 6 2017	244.90423	1.03273	1.03069	1.03359	1.03332	
October 7 2017	244.92787	1.03282	1.03079	1.03369	1.03342	
October 8 2017	244.95152	1.03292	1.03089	1.03379	1.03352	
October 9 2017	244.97516	1.03302	1.03099	1.03389	1.03362	
October 10 2017	244.99881	1.03312	1.03109	1.03399	1.03372	
October 11 2017	245.02245	1.03322	1.03119	1.03409	1.03382	
October 12 2017	245.04610	1.03332	1.03129	1.03419	1.03392	
October 13 2017	245.06974	1.03342	1.03139	1.03429	1.03402	
October 14 2017	245.09339	1.03352	1.03149	1.03439	1.03412	
October 15 2017	245.11703	1.03362	1.03159	1.03449	1.03422	
October 16 2017	245.14068	1.03372	1.03169	1.03459	1.03432	
October 17 2017	245.16432	1.03382	1.03179	1.03469	1.03442	
October 18 2017	245.18797	1.03392	1.03189	1.03479	1.03452	
October 19 2017	245.21161	1.03402	1.03199	1.03489	1.03462	
October 20 2017	245.23526	1.03412	1.03209	1.03499	1.03472	
October 21 2017	245.25890	1.03422	1.03219	1.03509	1.03482	
October 22 2017	245.28255	1.03432	1.03228	1.03519	1.03492	
October 23 2017	245.30619	1.03442	1.03238	1.03529	1.03502	
October 24 2017	245.32984	1.03452	1.03248	1.03539	1.03512	
October 25 2017	245.35348	1.03462	1.03258	1.03549	1.03522	
October 26 2017	245.37713	1.03472	1.03268	1.03559	1.03532	
October 27 2017	245.40077	1.03482	1.03278	1.03569	1.03542	
October 28 2017	245.42442	1.03492	1.03288	1.03579	1.03552	
October 29 2017	245.44806	1.03502	1.03298	1.03589	1.03562	
October 30 2017	245.47171	1.03512	1.03308	1.03599	1.03572	
October 31 2017	245.49535	1.03522	1.03318	1.03609	1.03581	
CPI-U (NSA) for:	June 2017	244.955	July 2017	244.786	August 2017	245.519

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2017

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	0-1/8% 5-Year TIPS Series X-2022 912828X39 April 15, 2017 April 28, 2017 August 31, 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 2017	244.78600	1.02121	1.01336	1.01406	1.00654	
October 2 2017	244.80965	1.02131	1.01346	1.01416	1.00664	
October 3 2017	244.83329	1.02141	1.01355	1.01425	1.00673	
October 4 2017	244.85694	1.02151	1.01365	1.01435	1.00683	
October 5 2017	244.88058	1.02161	1.01375	1.01445	1.00693	
October 6 2017	244.90423	1.02171	1.01385	1.01455	1.00703	
October 7 2017	244.92787	1.02180	1.01395	1.01465	1.00712	
October 8 2017	244.95152	1.02190	1.01404	1.01474	1.00722	
October 9 2017	244.97516	1.02200	1.01414	1.01484	1.00732	
October 10 2017	244.99881	1.02210	1.01424	1.01494	1.00741	
October 11 2017	245.02245	1.02220	1.01434	1.01504	1.00751	
October 12 2017	245.04610	1.02230	1.01444	1.01514	1.00761	
October 13 2017	245.06974	1.02240	1.01453	1.01523	1.00771	
October 14 2017	245.09339	1.02249	1.01463	1.01533	1.00780	
October 15 2017	245.11703	1.02259	1.01473	1.01543	1.00790	
October 16 2017	245.14068	1.02269	1.01483	1.01553	1.00800	
October 17 2017	245.16432	1.02279	1.01492	1.01563	1.00810	
October 18 2017	245.18797	1.02289	1.01502	1.01572	1.00819	
October 19 2017	245.21161	1.02299	1.01512	1.01582	1.00829	
October 20 2017	245.23526	1.02309	1.01522	1.01592	1.00839	
October 21 2017	245.25890	1.02319	1.01532	1.01602	1.00848	
October 22 2017	245.28255	1.02328	1.01541	1.01612	1.00858	
October 23 2017	245.30619	1.02338	1.01551	1.01621	1.00868	
October 24 2017	245.32984	1.02348	1.01561	1.01631	1.00878	
October 25 2017	245.35348	1.02358	1.01571	1.01641	1.00887	
October 26 2017	245.37713	1.02368	1.01581	1.01651	1.00897	
October 27 2017	245.40077	1.02378	1.01590	1.01660	1.00907	
October 28 2017	245.42442	1.02388	1.01600	1.01670	1.00917	
October 29 2017	245.44806	1.02397	1.01610	1.01680	1.00926	
October 30 2017	245.47171	1.02407	1.01620	1.01690	1.00936	
October 31 2017	245.49535	1.02417	1.01629	1.01700	1.00946	
CPI-U (NSA) for:			June 2017 244.955	July 2017 244.786	August 2017 245.519	

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
October 2017

Security:			0-3/8% 10-Year TIPS					
Description:			Series D-2027					
CUSIP Number:			9128282L3					
Dated Date:			July 15, 2017					
Original Issue Date:			July 31, 2017					
Additional Issue Date(s):								
Maturity Date:			July 15, 2027					
Ref CPI on Dated Date:			244.61839					
Date			Ref CPI		Index Ratio			
October	1	2017	244.78600		1.00069			
October	2	2017	244.80965		1.00078			
October	3	2017	244.83329		1.00088			
October	4	2017	244.85694		1.00098			
October	5	2017	244.88058		1.00107			
October	6	2017	244.90423		1.00117			
October	7	2017	244.92787		1.00127			
October	8	2017	244.95152		1.00136			
October	9	2017	244.97516		1.00146			
October	10	2017	244.99881		1.00156			
October	11	2017	245.02245		1.00165			
October	12	2017	245.04610		1.00175			
October	13	2017	245.06974		1.00185			
October	14	2017	245.09339		1.00194			
October	15	2017	245.11703		1.00204			
October	16	2017	245.14068		1.00214			
October	17	2017	245.16432		1.00223			
October	18	2017	245.18797		1.00233			
October	19	2017	245.21161		1.00243			
October	20	2017	245.23526		1.00252			
October	21	2017	245.25890		1.00262			
October	22	2017	245.28255		1.00272			
October	23	2017	245.30619		1.00281			
October	24	2017	245.32984		1.00291			
October	25	2017	245.35348		1.00301			
October	26	2017	245.37713		1.00310			
October	27	2017	245.40077		1.00320			
October	28	2017	245.42442		1.00330			
October	29	2017	245.44806		1.00339			
October	30	2017	245.47171		1.00349			
October	31	2017	245.49535		1.00359			
CPI-U (NSA) for:			June 2017	244.955	July 2017	244.786	August 2017	245.519