

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**July 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	
July 1 2016	239.26100	1.47929	1.45542	1.34795	1.26931	
July 2 2016	239.29245	1.47949	1.45561	1.34813	1.26948	
July 3 2016	239.32390	1.47968	1.45580	1.34830	1.26964	
July 4 2016	239.35535	1.47988	1.45599	1.34848	1.26981	
July 5 2016	239.38681	1.48007	1.45618	1.34866	1.26998	
July 6 2016	239.41826	1.48027	1.45637	1.34884	1.27015	
July 7 2016	239.44971	1.48046	1.45657	1.34901	1.27031	
July 8 2016	239.48116	1.48066	1.45676	1.34919	1.27048	
July 9 2016	239.51261	1.48085	1.45695	1.34937	1.27065	
July 10 2016	239.54406	1.48104	1.45714	1.34954	1.27081	
July 11 2016	239.57552	1.48124	1.45733	1.34972	1.27098	
July 12 2016	239.60697	1.48143	1.45752	1.34990	1.27115	
July 13 2016	239.63842	1.48163	1.45771	1.35008	1.27131	
July 14 2016	239.66987	1.48182	1.45791	1.35025	1.27148	
July 15 2016	239.70132	1.48202	1.45810	1.35043	1.27165	
July 16 2016	239.73277	1.48221	1.45829	1.35061	1.27181	
July 17 2016	239.76423	1.48241	1.45848	1.35078	1.27198	
July 18 2016	239.79568	1.48260	1.45867	1.35096	1.27215	
July 19 2016	239.82713	1.48279	1.45886	1.35114	1.27231	
July 20 2016	239.85858	1.48299	1.45905	1.35132	1.27248	
July 21 2016	239.89003	1.48318	1.45924	1.35149	1.27265	
July 22 2016	239.92148	1.48338	1.45944	1.35167	1.27281	
July 23 2016	239.95294	1.48357	1.45963	1.35185	1.27298	
July 24 2016	239.98439	1.48377	1.45982	1.35202	1.27315	
July 25 2016	240.01584	1.48396	1.46001	1.35220	1.27332	
July 26 2016	240.04729	1.48416	1.46020	1.35238	1.27348	
July 27 2016	240.07874	1.48435	1.46039	1.35256	1.27365	
July 28 2016	240.11019	1.48454	1.46058	1.35273	1.27382	
July 29 2016	240.14165	1.48474	1.46077	1.35291	1.27398	
July 30 2016	240.17310	1.48493	1.46097	1.35309	1.27415	
July 31 2016	240.20455	1.48513	1.46116	1.35327	1.27432	
<b>CPI-U (NSA) for:</b>			<b>March 2016 238.132</b>	<b>April 2016 239.261</b>	<b>May 2016 240.236</b>	

**TREASURY INFLATION-PROTECTED SECURITIES (TIPS)**  
**Ref CPI and Index Ratios for**  
**July 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 July 31, 2006	2-1/2% 10-Year TIPS Series D-2016 912828FL9 July 15, 2006 July 17, 2006 October 16, 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		
Maturity Date: Ref CPI on Dated Date:			January 15, 2026 198.47742	July 15, 2016 201.95161	January 15, 2017 201.66452	January 15, 2027 201.66452		
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio			
July 1 2016	239.26100	1.20548	1.18474	1.18643	1.18643			
July 2 2016	239.29245	1.20564	1.18490	1.18659	1.18659			
July 3 2016	239.32390	1.20580	1.18506	1.18674	1.18674			
July 4 2016	239.35535	1.20596	1.18521	1.18690	1.18690			
July 5 2016	239.38681	1.20612	1.18537	1.18705	1.18705			
July 6 2016	239.41826	1.20627	1.18552	1.18721	1.18721			
July 7 2016	239.44971	1.20643	1.18568	1.18737	1.18737			
July 8 2016	239.48116	1.20659	1.18583	1.18752	1.18752			
July 9 2016	239.51261	1.20675	1.18599	1.18768	1.18768			
July 10 2016	239.54406	1.20691	1.18615	1.18783	1.18783			
July 11 2016	239.57552	1.20707	1.18630	1.18799	1.18799			
July 12 2016	239.60697	1.20723	1.18646	1.18815	1.18815			
July 13 2016	239.63842	1.20738	1.18661	1.18830	1.18830			
July 14 2016	239.66987	1.20754	1.18677	1.18846	1.18846			
July 15 2016	239.70132	1.20770	1.18692	1.18861	1.18861			
July 16 2016	239.73277	1.20786		1.18877	1.18877			
July 17 2016	239.76423	1.20802		1.18893	1.18893			
July 18 2016	239.79568	1.20818		1.18908	1.18908			
July 19 2016	239.82713	1.20833		1.18924	1.18924			
July 20 2016	239.85858	1.20849		1.18939	1.18939			
July 21 2016	239.89003	1.20865		1.18955	1.18955			
July 22 2016	239.92148	1.20881		1.18971	1.18971			
July 23 2016	239.95294	1.20897		1.18986	1.18986			
July 24 2016	239.98439	1.20913		1.19002	1.19002			
July 25 2016	240.01584	1.20929		1.19017	1.19017			
July 26 2016	240.04729	1.20944		1.19033	1.19033			
July 27 2016	240.07874	1.20960		1.19049	1.19049			
July 28 2016	240.11019	1.20976		1.19064	1.19064			
July 29 2016	240.14165	1.20992		1.19080	1.19080			
July 30 2016	240.17310	1.21008		1.19095	1.19095			
July 31 2016	240.20455	1.21024		1.19111	1.19111			
<b>CPI-U (NSA) for:</b>			<b>March 2016</b>	<b>238.132</b>	<b>April 2016</b>	<b>239.261</b>	<b>May 2016</b>	<b>240.236</b>

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			2-5/8% 10-Year TIPS Series D-2017 912828GX2 July 15, 2007 July 16, 2007 October 15, 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	1-3/8% 10-Year TIPS Series D-2018 912828JE1 July 15, 2008 July 15, 2008 October 15, 2008
Maturity Date: Ref CPI on Dated Date:			July 15, 2017 207.25639	January 15, 2018 209.49645	January 15, 2028 209.49645	July 15, 2018 215.63997
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
July 1 2016	239.26100	1.15442	1.14208	1.14208	1.10954	
July 2 2016	239.29245	1.15457	1.14223	1.14223	1.10969	
July 3 2016	239.32390	1.15472	1.14238	1.14238	1.10983	
July 4 2016	239.35535	1.15488	1.14253	1.14253	1.10998	
July 5 2016	239.38681	1.15503	1.14268	1.14268	1.11012	
July 6 2016	239.41826	1.15518	1.14283	1.14283	1.11027	
July 7 2016	239.44971	1.15533	1.14298	1.14298	1.11041	
July 8 2016	239.48116	1.15548	1.14313	1.14313	1.11056	
July 9 2016	239.51261	1.15563	1.14328	1.14328	1.11071	
July 10 2016	239.54406	1.15579	1.14343	1.14343	1.11085	
July 11 2016	239.57552	1.15594	1.14358	1.14358	1.11100	
July 12 2016	239.60697	1.15609	1.14373	1.14373	1.11114	
July 13 2016	239.63842	1.15624	1.14388	1.14388	1.11129	
July 14 2016	239.66987	1.15639	1.14403	1.14403	1.11144	
July 15 2016	239.70132	1.15654	1.14418	1.14418	1.11158	
July 16 2016	239.73277	1.15670	1.14433	1.14433	1.11173	
July 17 2016	239.76423	1.15685	1.14448	1.14448	1.11187	
July 18 2016	239.79568	1.15700	1.14463	1.14463	1.11202	
July 19 2016	239.82713	1.15715	1.14478	1.14478	1.11216	
July 20 2016	239.85858	1.15730	1.14493	1.14493	1.11231	
July 21 2016	239.89003	1.15746	1.14508	1.14508	1.11246	
July 22 2016	239.92148	1.15761	1.14523	1.14523	1.11260	
July 23 2016	239.95294	1.15776	1.14538	1.14538	1.11275	
July 24 2016	239.98439	1.15791	1.14553	1.14553	1.11289	
July 25 2016	240.01584	1.15806	1.14568	1.14568	1.11304	
July 26 2016	240.04729	1.15821	1.14583	1.14583	1.11319	
July 27 2016	240.07874	1.15837	1.14598	1.14598	1.11333	
July 28 2016	240.11019	1.15852	1.14613	1.14613	1.11348	
July 29 2016	240.14165	1.15867	1.14628	1.14628	1.11362	
July 30 2016	240.17310	1.15882	1.14643	1.14643	1.11377	
July 31 2016	240.20455	1.15897	1.14658	1.14658	1.11391	
<b>CPI-U (NSA) for:</b>	<b>March 2016</b>	<b>238.132</b>	<b>April 2016</b>	<b>239.261</b>	<b>May 2016</b>	<b>240.236</b>

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	1-3/8% 10-Year TIPS Series A-2020 912828MF4 January 15, 2010 January 15, 2010 April 15, 2010
Maturity Date: Ref CPI on Dated Date:			January 15, 2019 214.69971	January 15, 2029 214.69971	July 15, 2019 213.51819	January 15, 2020 216.24610
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
July 1 2016	239.26100	1.11440	1.11440	1.12056	1.10643	
July 2 2016	239.29245	1.11454	1.11454	1.12071	1.10657	
July 3 2016	239.32390	1.11469	1.11469	1.12086	1.10672	
July 4 2016	239.35535	1.11484	1.11484	1.12101	1.10687	
July 5 2016	239.38681	1.11498	1.11498	1.12115	1.10701	
July 6 2016	239.41826	1.11513	1.11513	1.12130	1.10716	
July 7 2016	239.44971	1.11528	1.11528	1.12145	1.10730	
July 8 2016	239.48116	1.11542	1.11542	1.12160	1.10745	
July 9 2016	239.51261	1.11557	1.11557	1.12174	1.10759	
July 10 2016	239.54406	1.11572	1.11572	1.12189	1.10774	
July 11 2016	239.57552	1.11586	1.11586	1.12204	1.10788	
July 12 2016	239.60697	1.11601	1.11601	1.12219	1.10803	
July 13 2016	239.63842	1.11616	1.11616	1.12233	1.10817	
July 14 2016	239.66987	1.11630	1.11630	1.12248	1.10832	
July 15 2016	239.70132	1.11645	1.11645	1.12263	1.10847	
July 16 2016	239.73277	1.11660	1.11660	1.12277	1.10861	
July 17 2016	239.76423	1.11674	1.11674	1.12292	1.10876	
July 18 2016	239.79568	1.11689	1.11689	1.12307	1.10890	
July 19 2016	239.82713	1.11704	1.11704	1.12322	1.10905	
July 20 2016	239.85858	1.11718	1.11718	1.12336	1.10919	
July 21 2016	239.89003	1.11733	1.11733	1.12351	1.10934	
July 22 2016	239.92148	1.11747	1.11747	1.12366	1.10948	
July 23 2016	239.95294	1.11762	1.11762	1.12381	1.10963	
July 24 2016	239.98439	1.11777	1.11777	1.12395	1.10977	
July 25 2016	240.01584	1.11791	1.11791	1.12410	1.10992	
July 26 2016	240.04729	1.11806	1.11806	1.12425	1.11007	
July 27 2016	240.07874	1.11821	1.11821	1.12439	1.11021	
July 28 2016	240.11019	1.11835	1.11835	1.12454	1.11036	
July 29 2016	240.14165	1.11850	1.11850	1.12469	1.11050	
July 30 2016	240.17310	1.11865	1.11865	1.12484	1.11065	
July 31 2016	240.20455	1.11879	1.11879	1.12498	1.11079	
<b>CPI-U (NSA) for:</b>	<b>March 2016</b>	<b>238.132</b>	<b>April 2016</b>	<b>239.261</b>	<b>May 2016</b>	<b>240.236</b>

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

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	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
Maturity Date: Ref CPI on Dated Date:			February 15, 2040 216.13950	July 15, 2020 218.08532	January 15, 2021 218.75255	February 15, 2041 218.99100
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
July 1 2016	239.26100	1.10697	1.09710	1.09375	1.09256	
July 2 2016	239.29245	1.10712	1.09724	1.09390	1.09270	
July 3 2016	239.32390	1.10727	1.09739	1.09404	1.09285	
July 4 2016	239.35535	1.10741	1.09753	1.09418	1.09299	
July 5 2016	239.38681	1.10756	1.09768	1.09433	1.09314	
July 6 2016	239.41826	1.10770	1.09782	1.09447	1.09328	
July 7 2016	239.44971	1.10785	1.09796	1.09461	1.09342	
July 8 2016	239.48116	1.10799	1.09811	1.09476	1.09357	
July 9 2016	239.51261	1.10814	1.09825	1.09490	1.09371	
July 10 2016	239.54406	1.10828	1.09840	1.09505	1.09385	
July 11 2016	239.57552	1.10843	1.09854	1.09519	1.09400	
July 12 2016	239.60697	1.10858	1.09868	1.09533	1.09414	
July 13 2016	239.63842	1.10872	1.09883	1.09548	1.09428	
July 14 2016	239.66987	1.10887	1.09897	1.09562	1.09443	
July 15 2016	239.70132	1.10901	1.09912	1.09576	1.09457	
July 16 2016	239.73277	1.10916	1.09926	1.09591	1.09472	
July 17 2016	239.76423	1.10930	1.09941	1.09605	1.09486	
July 18 2016	239.79568	1.10945	1.09955	1.09620	1.09500	
July 19 2016	239.82713	1.10959	1.09969	1.09634	1.09515	
July 20 2016	239.85858	1.10974	1.09984	1.09648	1.09529	
July 21 2016	239.89003	1.10989	1.09998	1.09663	1.09543	
July 22 2016	239.92148	1.11003	1.10013	1.09677	1.09558	
July 23 2016	239.95294	1.11018	1.10027	1.09691	1.09572	
July 24 2016	239.98439	1.11032	1.10042	1.09706	1.09586	
July 25 2016	240.01584	1.11047	1.10056	1.09720	1.09601	
July 26 2016	240.04729	1.11061	1.10070	1.09735	1.09615	
July 27 2016	240.07874	1.11076	1.10085	1.09749	1.09630	
July 28 2016	240.11019	1.11090	1.10099	1.09763	1.09644	
July 29 2016	240.14165	1.11105	1.10114	1.09778	1.09658	
July 30 2016	240.17310	1.11119	1.10128	1.09792	1.09673	
July 31 2016	240.20455	1.11134	1.10142	1.09807	1.09687	
<b>CPI-U (NSA) for:</b>	<b>March 2016</b>	<b>238.132</b>	<b>April 2016</b>	<b>239.261</b>	<b>May 2016</b>	<b>240.236</b>

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

Security: Description: CUSIP Number: Dated Date: Original Issue Date: Additional Issue Date(s):			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	0-1/8% 5-Year TIPS Series X-2017 912828SQ4 April 15, 2012 April 30, 2012 August 31, 2012 December 31, 2012
Maturity Date: Ref CPI on Dated Date:			July 15, 2021 225.38381	January 15, 2022 226.33474	February 15, 2042 225.96062	April 15, 2017 227.13073
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
July 1 2016	239.26100	1.06157	1.05711	1.05886	1.05341	
July 2 2016	239.29245	1.06171	1.05725	1.05900	1.05355	
July 3 2016	239.32390	1.06185	1.05739	1.05914	1.05368	
July 4 2016	239.35535	1.06199	1.05753	1.05928	1.05382	
July 5 2016	239.38681	1.06213	1.05767	1.05942	1.05396	
July 6 2016	239.41826	1.06227	1.05781	1.05956	1.05410	
July 7 2016	239.44971	1.06241	1.05795	1.05970	1.05424	
July 8 2016	239.48116	1.06255	1.05808	1.05984	1.05438	
July 9 2016	239.51261	1.06269	1.05822	1.05998	1.05451	
July 10 2016	239.54406	1.06283	1.05836	1.06011	1.05465	
July 11 2016	239.57552	1.06297	1.05850	1.06025	1.05479	
July 12 2016	239.60697	1.06311	1.05864	1.06039	1.05493	
July 13 2016	239.63842	1.06325	1.05878	1.06053	1.05507	
July 14 2016	239.66987	1.06339	1.05892	1.06067	1.05521	
July 15 2016	239.70132	1.06353	1.05906	1.06081	1.05535	
July 16 2016	239.73277	1.06366	1.05920	1.06095	1.05548	
July 17 2016	239.76423	1.06380	1.05933	1.06109	1.05562	
July 18 2016	239.79568	1.06394	1.05947	1.06123	1.05576	
July 19 2016	239.82713	1.06408	1.05961	1.06137	1.05590	
July 20 2016	239.85858	1.06422	1.05975	1.06151	1.05604	
July 21 2016	239.89003	1.06436	1.05989	1.06165	1.05618	
July 22 2016	239.92148	1.06450	1.06003	1.06178	1.05631	
July 23 2016	239.95294	1.06464	1.06017	1.06192	1.05645	
July 24 2016	239.98439	1.06478	1.06031	1.06206	1.05659	
July 25 2016	240.01584	1.06492	1.06045	1.06220	1.05673	
July 26 2016	240.04729	1.06506	1.06059	1.06234	1.05687	
July 27 2016	240.07874	1.06520	1.06072	1.06248	1.05701	
July 28 2016	240.11019	1.06534	1.06086	1.06262	1.05715	
July 29 2016	240.14165	1.06548	1.06100	1.06276	1.05728	
July 30 2016	240.17310	1.06562	1.06114	1.06290	1.05742	
July 31 2016	240.20455	1.06576	1.06128	1.06304	1.05756	
<b>CPI-U (NSA) for:</b>	<b>March 2016</b>	<b>238.132</b>	<b>April 2016</b>	<b>239.261</b>	<b>May 2016</b>	<b>240.236</b>

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

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	0-1/8% 5-Year TIPS Series X-2018 912828UX6 April 15, 2013 April 30, 2013 August 30, 2013 December 31, 2013
Maturity Date: Ref CPI on Dated Date:			July 15, 2022 229.96306	January 15, 2023 230.82203	February 15, 2043 229.91100	April 15, 2018 231.16013
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
July 1 2016	239.26100	1.04043	1.03656	1.04067	1.03504	
July 2 2016	239.29245	1.04057	1.03670	1.04080	1.03518	
July 3 2016	239.32390	1.04071	1.03683	1.04094	1.03532	
July 4 2016	239.35535	1.04084	1.03697	1.04108	1.03545	
July 5 2016	239.38681	1.04098	1.03711	1.04122	1.03559	
July 6 2016	239.41826	1.04112	1.03724	1.04135	1.03572	
July 7 2016	239.44971	1.04125	1.03738	1.04149	1.03586	
July 8 2016	239.48116	1.04139	1.03751	1.04163	1.03600	
July 9 2016	239.51261	1.04153	1.03765	1.04176	1.03613	
July 10 2016	239.54406	1.04166	1.03779	1.04190	1.03627	
July 11 2016	239.57552	1.04180	1.03792	1.04204	1.03641	
July 12 2016	239.60697	1.04194	1.03806	1.04217	1.03654	
July 13 2016	239.63842	1.04207	1.03820	1.04231	1.03668	
July 14 2016	239.66987	1.04221	1.03833	1.04245	1.03681	
July 15 2016	239.70132	1.04235	1.03847	1.04258	1.03695	
July 16 2016	239.73277	1.04248	1.03860	1.04272	1.03709	
July 17 2016	239.76423	1.04262	1.03874	1.04286	1.03722	
July 18 2016	239.79568	1.04276	1.03888	1.04299	1.03736	
July 19 2016	239.82713	1.04289	1.03901	1.04313	1.03749	
July 20 2016	239.85858	1.04303	1.03915	1.04327	1.03763	
July 21 2016	239.89003	1.04317	1.03929	1.04340	1.03777	
July 22 2016	239.92148	1.04330	1.03942	1.04354	1.03790	
July 23 2016	239.95294	1.04344	1.03956	1.04368	1.03804	
July 24 2016	239.98439	1.04358	1.03969	1.04381	1.03817	
July 25 2016	240.01584	1.04371	1.03983	1.04395	1.03831	
July 26 2016	240.04729	1.04385	1.03997	1.04409	1.03845	
July 27 2016	240.07874	1.04399	1.04010	1.04422	1.03858	
July 28 2016	240.11019	1.04413	1.04024	1.04436	1.03872	
July 29 2016	240.14165	1.04426	1.04038	1.04450	1.03885	
July 30 2016	240.17310	1.04440	1.04051	1.04464	1.03899	
July 31 2016	240.20455	1.04454	1.04065	1.04477	1.03913	
<b>CPI-U (NSA) for:</b>	<b>March 2016</b>	<b>238.132</b>	<b>April 2016</b>	<b>239.261</b>	<b>May 2016</b>	<b>240.236</b>

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

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	
July 1 2016	239.26100	1.02812	1.02542	1.02661	1.02109	
July 2 2016	239.29245	1.02825	1.02555	1.02675	1.02122	
July 3 2016	239.32390	1.02839	1.02569	1.02688	1.02136	
July 4 2016	239.35535	1.02852	1.02582	1.02702	1.02149	
July 5 2016	239.38681	1.02866	1.02596	1.02715	1.02162	
July 6 2016	239.41826	1.02879	1.02609	1.02729	1.02176	
July 7 2016	239.44971	1.02893	1.02623	1.02742	1.02189	
July 8 2016	239.48116	1.02906	1.02636	1.02756	1.02203	
July 9 2016	239.51261	1.02920	1.02649	1.02769	1.02216	
July 10 2016	239.54406	1.02933	1.02663	1.02783	1.02230	
July 11 2016	239.57552	1.02947	1.02676	1.02796	1.02243	
July 12 2016	239.60697	1.02960	1.02690	1.02810	1.02256	
July 13 2016	239.63842	1.02974	1.02703	1.02823	1.02270	
July 14 2016	239.66987	1.02987	1.02717	1.02837	1.02283	
July 15 2016	239.70132	1.03001	1.02730	1.02850	1.02297	
July 16 2016	239.73277	1.03014	1.02744	1.02864	1.02310	
July 17 2016	239.76423	1.03028	1.02757	1.02877	1.02324	
July 18 2016	239.79568	1.03041	1.02771	1.02891	1.02337	
July 19 2016	239.82713	1.03055	1.02784	1.02904	1.02350	
July 20 2016	239.85858	1.03068	1.02798	1.02918	1.02364	
July 21 2016	239.89003	1.03082	1.02811	1.02931	1.02377	
July 22 2016	239.92148	1.03095	1.02825	1.02945	1.02391	
July 23 2016	239.95294	1.03109	1.02838	1.02958	1.02404	
July 24 2016	239.98439	1.03122	1.02852	1.02972	1.02418	
July 25 2016	240.01584	1.03136	1.02865	1.02985	1.02431	
July 26 2016	240.04729	1.03149	1.02879	1.02999	1.02444	
July 27 2016	240.07874	1.03163	1.02892	1.03012	1.02458	
July 28 2016	240.11019	1.03176	1.02906	1.03025	1.02471	
July 29 2016	240.14165	1.03190	1.02919	1.03039	1.02485	
July 30 2016	240.17310	1.03204	1.02933	1.03052	1.02498	
July 31 2016	240.20455	1.03217	1.02946	1.03066	1.02511	
<b>CPI-U (NSA) for:</b>	<b>March 2016</b>	<b>238.132</b>	<b>April 2016</b>	<b>239.261</b>	<b>May 2016</b>	<b>240.236</b>



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

Date			Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
July	1	2016	239.26100	1.00764	1.01016	1.01605	1.02169	
July	2	2016	239.29245	1.00778	1.01030	1.01618	1.02183	
July	3	2016	239.32390	1.00791	1.01043	1.01632	1.02196	
July	4	2016	239.35535	1.00804	1.01056	1.01645	1.02210	
July	5	2016	239.38681	1.00817	1.01069	1.01658	1.02223	
July	6	2016	239.41826	1.00831	1.01083	1.01672	1.02237	
July	7	2016	239.44971	1.00844	1.01096	1.01685	1.02250	
July	8	2016	239.48116	1.00857	1.01109	1.01699	1.02263	
July	9	2016	239.51261	1.00870	1.01122	1.01712	1.02277	
July	10	2016	239.54406	1.00884	1.01136	1.01725	1.02290	
July	11	2016	239.57552	1.00897	1.01149	1.01739	1.02304	
July	12	2016	239.60697	1.00910	1.01162	1.01752	1.02317	
July	13	2016	239.63842	1.00923	1.01176	1.01765	1.02331	
July	14	2016	239.66987	1.00937	1.01189	1.01779	1.02344	
July	15	2016	239.70132	1.00950	1.01202	1.01792	1.02357	
July	16	2016	239.73277	1.00963	1.01215	1.01805	1.02371	
July	17	2016	239.76423	1.00976	1.01229	1.01819	1.02384	
July	18	2016	239.79568	1.00990	1.01242	1.01832	1.02398	
July	19	2016	239.82713	1.01003	1.01255	1.01845	1.02411	
July	20	2016	239.85858	1.01016	1.01269	1.01859	1.02425	
July	21	2016	239.89003	1.01029	1.01282	1.01872	1.02438	
July	22	2016	239.92148	1.01043	1.01295	1.01885	1.02451	
July	23	2016	239.95294	1.01056	1.01308	1.01899	1.02465	
July	24	2016	239.98439	1.01069	1.01322	1.01912	1.02478	
July	25	2016	240.01584	1.01082	1.01335	1.01926	1.02492	
July	26	2016	240.04729	1.01096	1.01348	1.01939	1.02505	
July	27	2016	240.07874	1.01109	1.01361	1.01952	1.02519	
July	28	2016	240.11019	1.01122	1.01375	1.01966	1.02532	
July	29	2016	240.14165	1.01135	1.01388	1.01979	1.02545	
July	30	2016	240.17310	1.01149	1.01401	1.01992	1.02559	
July	31	2016	240.20455	1.01162	1.01415	1.02006	1.02572	
<b>CPI-U (NSA) for:</b>			<b>March 2016</b>	<b>238.132</b>	<b>April 2016</b>	<b>239.261</b>	<b>May 2016</b>	<b>240.236</b>

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

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	0-1/8% 5-Year TIPS Series X-2021 912828Q60 April 15, 2016 April 29, 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	
July 1 2016	239.26100	1.00893	1.00694	1.00978	1.00951	
July 2 2016	239.29245	1.00906	1.00708	1.00991	1.00964	
July 3 2016	239.32390	1.00919	1.00721	1.01004	1.00978	
July 4 2016	239.35535	1.00933	1.00734	1.01017	1.00991	
July 5 2016	239.38681	1.00946	1.00747	1.01031	1.01004	
July 6 2016	239.41826	1.00959	1.00760	1.01044	1.01017	
July 7 2016	239.44971	1.00972	1.00774	1.01057	1.01031	
July 8 2016	239.48116	1.00986	1.00787	1.01071	1.01044	
July 9 2016	239.51261	1.00999	1.00800	1.01084	1.01057	
July 10 2016	239.54406	1.01012	1.00813	1.01097	1.01070	
July 11 2016	239.57552	1.01025	1.00827	1.01110	1.01084	
July 12 2016	239.60697	1.01039	1.00840	1.01124	1.01097	
July 13 2016	239.63842	1.01052	1.00853	1.01137	1.01110	
July 14 2016	239.66987	1.01065	1.00866	1.01150	1.01124	
July 15 2016	239.70132	1.01079	1.00880	1.01163	1.01137	
July 16 2016	239.73277	1.01092	1.00893	1.01177	1.01150	
July 17 2016	239.76423	1.01105	1.00906	1.01190	1.01163	
July 18 2016	239.79568	1.01118	1.00919	1.01203	1.01177	
July 19 2016	239.82713	1.01132	1.00933	1.01217	1.01190	
July 20 2016	239.85858	1.01145	1.00946	1.01230	1.01203	
July 21 2016	239.89003	1.01158	1.00959	1.01243	1.01216	
July 22 2016	239.92148	1.01171	1.00972	1.01256	1.01230	
July 23 2016	239.95294	1.01185	1.00985	1.01270	1.01243	
July 24 2016	239.98439	1.01198	1.00999	1.01283	1.01256	
July 25 2016	240.01584	1.01211	1.01012	1.01296	1.01270	
July 26 2016	240.04729	1.01224	1.01025	1.01310	1.01283	
July 27 2016	240.07874	1.01238	1.01038	1.01323	1.01296	
July 28 2016	240.11019	1.01251	1.01052	1.01336	1.01309	
July 29 2016	240.14165	1.01264	1.01065	1.01349	1.01323	
July 30 2016	240.17310	1.01277	1.01078	1.01363	1.01336	
July 31 2016	240.20455	1.01291	1.01091	1.01376	1.01349	
<b>CPI-U (NSA) for:</b>	<b>March 2016</b>	<b>238.132</b>	<b>April 2016</b>	<b>239.261</b>	<b>May 2016</b>	<b>240.236</b>