

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
November 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	
November 1 2016	240.85300	1.48914	1.46510	1.35692	1.27776	
November 2 2016	240.87217	1.48926	1.46522	1.35703	1.27786	
November 3 2016	240.89133	1.48937	1.46534	1.35713	1.27796	
November 4 2016	240.91050	1.48949	1.46545	1.35724	1.27806	
November 5 2016	240.92967	1.48961	1.46557	1.35735	1.27816	
November 6 2016	240.94883	1.48973	1.46568	1.35746	1.27827	
November 7 2016	240.96800	1.48985	1.46580	1.35757	1.27837	
November 8 2016	240.98717	1.48997	1.46592	1.35767	1.27847	
November 9 2016	241.00633	1.49008	1.46603	1.35778	1.27857	
November 10 2016	241.02550	1.49020	1.46615	1.35789	1.27867	
November 11 2016	241.04467	1.49032	1.46627	1.35800	1.27877	
November 12 2016	241.06383	1.49044	1.46638	1.35811	1.27888	
November 13 2016	241.08300	1.49056	1.46650	1.35821	1.27898	
November 14 2016	241.10217	1.49068	1.46662	1.35832	1.27908	
November 15 2016	241.12133	1.49080	1.46673	1.35843	1.27918	
November 16 2016	241.14050	1.49091	1.46685	1.35854	1.27928	
November 17 2016	241.15967	1.49103	1.46697	1.35865	1.27938	
November 18 2016	241.17883	1.49115	1.46708	1.35875	1.27949	
November 19 2016	241.19800	1.49127	1.46720	1.35886	1.27959	
November 20 2016	241.21717	1.49139	1.46732	1.35897	1.27969	
November 21 2016	241.23633	1.49151	1.46743	1.35908	1.27979	
November 22 2016	241.25550	1.49163	1.46755	1.35919	1.27989	
November 23 2016	241.27467	1.49174	1.46767	1.35929	1.27999	
November 24 2016	241.29383	1.49186	1.46778	1.35940	1.28010	
November 25 2016	241.31300	1.49198	1.46790	1.35951	1.28020	
November 26 2016	241.33217	1.49210	1.46802	1.35962	1.28030	
November 27 2016	241.35133	1.49222	1.46813	1.35973	1.28040	
November 28 2016	241.37050	1.49234	1.46825	1.35983	1.28050	
November 29 2016	241.38967	1.49245	1.46837	1.35994	1.28060	
November 30 2016	241.40883	1.49257	1.46848	1.36005	1.28071	
CPI-U (NSA) for:			July 2016 240.647	August 2016 240.853	September 2016 241.428	

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

Security:			2% 20-Year TIPS	2-3/8% 10-Year TIPS	2-3/8% 20-Year TIPS	2-5/8% 10-Year TIPS
Description:			TIPS of January 2026	Series A-2017	TIPS of January 2027	Series D-2017
CUSIP Number:			912810FS2	912828GD6	912810PS1	912828GX2
Dated Date:			January 15, 2006	January 15, 2007	January 15, 2007	July 15, 2007
Original Issue Date:			January 31, 2006	January 16, 2007	January 31, 2007	July 16, 2007
Additional Issue Date(s):			July 31, 2006	April 16, 2007	July 31, 2007	October 15, 2007
Maturity Date:			January 15, 2026	January 15, 2017	January 15, 2027	July 15, 2017
Ref CPI on Dated Date:			198.47742	201.66452	201.66452	207.25639
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	Index Ratio
November 1 2016	240.85300	1.21350	1.19433	1.19433	1.16210	
November 2 2016	240.87217	1.21360	1.19442	1.19442	1.16219	
November 3 2016	240.89133	1.21370	1.19452	1.19452	1.16229	
November 4 2016	240.91050	1.21379	1.19461	1.19461	1.16238	
November 5 2016	240.92967	1.21389	1.19471	1.19471	1.16247	
November 6 2016	240.94883	1.21399	1.19480	1.19480	1.16256	
November 7 2016	240.96800	1.21408	1.19490	1.19490	1.16266	
November 8 2016	240.98717	1.21418	1.19499	1.19499	1.16275	
November 9 2016	241.00633	1.21428	1.19509	1.19509	1.16284	
November 10 2016	241.02550	1.21437	1.19518	1.19518	1.16293	
November 11 2016	241.04467	1.21447	1.19528	1.19528	1.16303	
November 12 2016	241.06383	1.21457	1.19537	1.19537	1.16312	
November 13 2016	241.08300	1.21466	1.19547	1.19547	1.16321	
November 14 2016	241.10217	1.21476	1.19556	1.19556	1.16330	
November 15 2016	241.12133	1.21486	1.19566	1.19566	1.16340	
November 16 2016	241.14050	1.21495	1.19575	1.19575	1.16349	
November 17 2016	241.15967	1.21505	1.19585	1.19585	1.16358	
November 18 2016	241.17883	1.21514	1.19594	1.19594	1.16367	
November 19 2016	241.19800	1.21524	1.19604	1.19604	1.16377	
November 20 2016	241.21717	1.21534	1.19613	1.19613	1.16386	
November 21 2016	241.23633	1.21543	1.19623	1.19623	1.16395	
November 22 2016	241.25550	1.21553	1.19632	1.19632	1.16404	
November 23 2016	241.27467	1.21563	1.19642	1.19642	1.16414	
November 24 2016	241.29383	1.21572	1.19651	1.19651	1.16423	
November 25 2016	241.31300	1.21582	1.19661	1.19661	1.16432	
November 26 2016	241.33217	1.21592	1.19670	1.19670	1.16441	
November 27 2016	241.35133	1.21601	1.19680	1.19680	1.16451	
November 28 2016	241.37050	1.21611	1.19689	1.19689	1.16460	
November 29 2016	241.38967	1.21621	1.19699	1.19699	1.16469	
November 30 2016	241.40883	1.21630	1.19708	1.19708	1.16478	
CPI-U (NSA) for:	July 2016	240.647	August 2016	240.853	September 2016	241.428

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
November 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	
November 1 2016	240.85300	1.14968	1.14968	1.11692	1.12181	
November 2 2016	240.87217	1.14977	1.14977	1.11701	1.12190	
November 3 2016	240.89133	1.14986	1.14986	1.11710	1.12199	
November 4 2016	240.91050	1.14995	1.14995	1.11719	1.12208	
November 5 2016	240.92967	1.15004	1.15004	1.11728	1.12217	
November 6 2016	240.94883	1.15013	1.15013	1.11737	1.12226	
November 7 2016	240.96800	1.15022	1.15022	1.11746	1.12235	
November 8 2016	240.98717	1.15032	1.15032	1.11754	1.12244	
November 9 2016	241.00633	1.15041	1.15041	1.11763	1.12253	
November 10 2016	241.02550	1.15050	1.15050	1.11772	1.12262	
November 11 2016	241.04467	1.15059	1.15059	1.11781	1.12271	
November 12 2016	241.06383	1.15068	1.15068	1.11790	1.12280	
November 13 2016	241.08300	1.15077	1.15077	1.11799	1.12288	
November 14 2016	241.10217	1.15087	1.15087	1.11808	1.12297	
November 15 2016	241.12133	1.15096	1.15096	1.11817	1.12306	
November 16 2016	241.14050	1.15105	1.15105	1.11826	1.12315	
November 17 2016	241.15967	1.15114	1.15114	1.11834	1.12324	
November 18 2016	241.17883	1.15123	1.15123	1.11843	1.12333	
November 19 2016	241.19800	1.15132	1.15132	1.11852	1.12342	
November 20 2016	241.21717	1.15141	1.15141	1.11861	1.12351	
November 21 2016	241.23633	1.15151	1.15151	1.11870	1.12360	
November 22 2016	241.25550	1.15160	1.15160	1.11879	1.12369	
November 23 2016	241.27467	1.15169	1.15169	1.11888	1.12378	
November 24 2016	241.29383	1.15178	1.15178	1.11897	1.12387	
November 25 2016	241.31300	1.15187	1.15187	1.11906	1.12396	
November 26 2016	241.33217	1.15196	1.15196	1.11914	1.12405	
November 27 2016	241.35133	1.15205	1.15205	1.11923	1.12413	
November 28 2016	241.37050	1.15215	1.15215	1.11932	1.12422	
November 29 2016	241.38967	1.15224	1.15224	1.11941	1.12431	
November 30 2016	241.40883	1.15233	1.15233	1.11950	1.12440	
CPI-U (NSA) for:	July 2016	240.647	August 2016	240.853	September 2016	241.428

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Ref CPI and Index Ratios for
November 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	
November 1 2016	240.85300	1.12181	1.12802	1.11379	1.11434	
November 2 2016	240.87217	1.12190	1.12811	1.11388	1.11443	
November 3 2016	240.89133	1.12199	1.12820	1.11397	1.11452	
November 4 2016	240.91050	1.12208	1.12829	1.11406	1.11461	
November 5 2016	240.92967	1.12217	1.12838	1.11415	1.11470	
November 6 2016	240.94883	1.12226	1.12847	1.11423	1.11478	
November 7 2016	240.96800	1.12235	1.12856	1.11432	1.11487	
November 8 2016	240.98717	1.12244	1.12865	1.11441	1.11496	
November 9 2016	241.00633	1.12253	1.12874	1.11450	1.11505	
November 10 2016	241.02550	1.12262	1.12883	1.11459	1.11514	
November 11 2016	241.04467	1.12271	1.12892	1.11468	1.11523	
November 12 2016	241.06383	1.12280	1.12901	1.11477	1.11532	
November 13 2016	241.08300	1.12288	1.12910	1.11485	1.11540	
November 14 2016	241.10217	1.12297	1.12919	1.11494	1.11549	
November 15 2016	241.12133	1.12306	1.12928	1.11503	1.11558	
November 16 2016	241.14050	1.12315	1.12937	1.11512	1.11567	
November 17 2016	241.15967	1.12324	1.12946	1.11521	1.11576	
November 18 2016	241.17883	1.12333	1.12955	1.11530	1.11585	
November 19 2016	241.19800	1.12342	1.12964	1.11539	1.11594	
November 20 2016	241.21717	1.12351	1.12973	1.11548	1.11603	
November 21 2016	241.23633	1.12360	1.12982	1.11556	1.11611	
November 22 2016	241.25550	1.12369	1.12991	1.11565	1.11620	
November 23 2016	241.27467	1.12378	1.13000	1.11574	1.11629	
November 24 2016	241.29383	1.12387	1.13009	1.11583	1.11638	
November 25 2016	241.31300	1.12396	1.13018	1.11592	1.11647	
November 26 2016	241.33217	1.12405	1.13027	1.11601	1.11656	
November 27 2016	241.35133	1.12413	1.13035	1.11610	1.11665	
November 28 2016	241.37050	1.12422	1.13044	1.11618	1.11673	
November 29 2016	241.38967	1.12431	1.13053	1.11627	1.11682	
November 30 2016	241.40883	1.12440	1.13062	1.11636	1.11691	
CPI-U (NSA) for:	July 2016	240.647	August 2016	240.853	September 2016	241.428

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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	
November 1 2016	240.85300	1.10440	1.10103	1.09983	1.06863	
November 2 2016	240.87217	1.10449	1.10112	1.09992	1.06872	
November 3 2016	240.89133	1.10457	1.10120	1.10001	1.06880	
November 4 2016	240.91050	1.10466	1.10129	1.10009	1.06889	
November 5 2016	240.92967	1.10475	1.10138	1.10018	1.06898	
November 6 2016	240.94883	1.10484	1.10147	1.10027	1.06906	
November 7 2016	240.96800	1.10493	1.10156	1.10036	1.06915	
November 8 2016	240.98717	1.10501	1.10164	1.10044	1.06923	
November 9 2016	241.00633	1.10510	1.10173	1.10053	1.06932	
November 10 2016	241.02550	1.10519	1.10182	1.10062	1.06940	
November 11 2016	241.04467	1.10528	1.10191	1.10071	1.06949	
November 12 2016	241.06383	1.10536	1.10199	1.10079	1.06957	
November 13 2016	241.08300	1.10545	1.10208	1.10088	1.06966	
November 14 2016	241.10217	1.10554	1.10217	1.10097	1.06974	
November 15 2016	241.12133	1.10563	1.10226	1.10106	1.06983	
November 16 2016	241.14050	1.10572	1.10234	1.10114	1.06991	
November 17 2016	241.15967	1.10580	1.10243	1.10123	1.07000	
November 18 2016	241.17883	1.10589	1.10252	1.10132	1.07008	
November 19 2016	241.19800	1.10598	1.10261	1.10141	1.07017	
November 20 2016	241.21717	1.10607	1.10269	1.10149	1.07025	
November 21 2016	241.23633	1.10616	1.10278	1.10158	1.07034	
November 22 2016	241.25550	1.10624	1.10287	1.10167	1.07042	
November 23 2016	241.27467	1.10633	1.10296	1.10176	1.07051	
November 24 2016	241.29383	1.10642	1.10304	1.10184	1.07059	
November 25 2016	241.31300	1.10651	1.10313	1.10193	1.07068	
November 26 2016	241.33217	1.10660	1.10322	1.10202	1.07076	
November 27 2016	241.35133	1.10668	1.10331	1.10211	1.07085	
November 28 2016	241.37050	1.10677	1.10340	1.10219	1.07093	
November 29 2016	241.38967	1.10686	1.10348	1.10228	1.07102	
November 30 2016	241.40883	1.10695	1.10357	1.10237	1.07110	
CPI-U (NSA) for:	July 2016	240.647	August 2016	240.853	September 2016	241.428

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
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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 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	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	
November 1 2016	240.85300	1.06415	1.06591	1.06042	1.04736	
November 2 2016	240.87217	1.06423	1.06599	1.06050	1.04744	
November 3 2016	240.89133	1.06431	1.06608	1.06058	1.04752	
November 4 2016	240.91050	1.06440	1.06616	1.06067	1.04761	
November 5 2016	240.92967	1.06448	1.06625	1.06075	1.04769	
November 6 2016	240.94883	1.06457	1.06633	1.06084	1.04777	
November 7 2016	240.96800	1.06465	1.06642	1.06092	1.04786	
November 8 2016	240.98717	1.06474	1.06650	1.06101	1.04794	
November 9 2016	241.00633	1.06482	1.06659	1.06109	1.04802	
November 10 2016	241.02550	1.06491	1.06667	1.06118	1.04811	
November 11 2016	241.04467	1.06499	1.06676	1.06126	1.04819	
November 12 2016	241.06383	1.06508	1.06684	1.06134	1.04827	
November 13 2016	241.08300	1.06516	1.06692	1.06143	1.04836	
November 14 2016	241.10217	1.06525	1.06701	1.06151	1.04844	
November 15 2016	241.12133	1.06533	1.06709	1.06160	1.04852	
November 16 2016	241.14050	1.06542	1.06718	1.06168	1.04861	
November 17 2016	241.15967	1.06550	1.06726	1.06177	1.04869	
November 18 2016	241.17883	1.06558	1.06735	1.06185	1.04877	
November 19 2016	241.19800	1.06567	1.06743	1.06193	1.04886	
November 20 2016	241.21717	1.06575	1.06752	1.06202	1.04894	
November 21 2016	241.23633	1.06584	1.06760	1.06210	1.04902	
November 22 2016	241.25550	1.06592	1.06769	1.06219	1.04911	
November 23 2016	241.27467	1.06601	1.06777	1.06227	1.04919	
November 24 2016	241.29383	1.06609	1.06786	1.06236	1.04927	
November 25 2016	241.31300	1.06618	1.06794	1.06244	1.04936	
November 26 2016	241.33217	1.06626	1.06803	1.06253	1.04944	
November 27 2016	241.35133	1.06635	1.06811	1.06261	1.04952	
November 28 2016	241.37050	1.06643	1.06820	1.06269	1.04961	
November 29 2016	241.38967	1.06652	1.06828	1.06278	1.04969	
November 30 2016	241.40883	1.06660	1.06837	1.06286	1.04977	
CPI-U (NSA) for:	July 2016	240.647	August 2016	240.853	September 2016	241.428

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November 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	
November 1 2016	240.85300	1.04346	1.04759	1.04193	1.03496	
November 2 2016	240.87217	1.04354	1.04768	1.04201	1.03504	
November 3 2016	240.89133	1.04362	1.04776	1.04210	1.03512	
November 4 2016	240.91050	1.04371	1.04784	1.04218	1.03520	
November 5 2016	240.92967	1.04379	1.04793	1.04226	1.03529	
November 6 2016	240.94883	1.04387	1.04801	1.04235	1.03537	
November 7 2016	240.96800	1.04396	1.04809	1.04243	1.03545	
November 8 2016	240.98717	1.04404	1.04818	1.04251	1.03553	
November 9 2016	241.00633	1.04412	1.04826	1.04259	1.03562	
November 10 2016	241.02550	1.04420	1.04834	1.04268	1.03570	
November 11 2016	241.04467	1.04429	1.04843	1.04276	1.03578	
November 12 2016	241.06383	1.04437	1.04851	1.04284	1.03586	
November 13 2016	241.08300	1.04445	1.04859	1.04293	1.03594	
November 14 2016	241.10217	1.04454	1.04868	1.04301	1.03603	
November 15 2016	241.12133	1.04462	1.04876	1.04309	1.03611	
November 16 2016	241.14050	1.04470	1.04884	1.04318	1.03619	
November 17 2016	241.15967	1.04479	1.04893	1.04326	1.03627	
November 18 2016	241.17883	1.04487	1.04901	1.04334	1.03636	
November 19 2016	241.19800	1.04495	1.04909	1.04342	1.03644	
November 20 2016	241.21717	1.04504	1.04918	1.04351	1.03652	
November 21 2016	241.23633	1.04512	1.04926	1.04359	1.03660	
November 22 2016	241.25550	1.04520	1.04934	1.04367	1.03669	
November 23 2016	241.27467	1.04528	1.04943	1.04376	1.03677	
November 24 2016	241.29383	1.04537	1.04951	1.04384	1.03685	
November 25 2016	241.31300	1.04545	1.04959	1.04392	1.03693	
November 26 2016	241.33217	1.04553	1.04968	1.04400	1.03702	
November 27 2016	241.35133	1.04562	1.04976	1.04409	1.03710	
November 28 2016	241.37050	1.04570	1.04984	1.04417	1.03718	
November 29 2016	241.38967	1.04578	1.04993	1.04425	1.03726	
November 30 2016	241.40883	1.04587	1.05001	1.04434	1.03735	
CPI-U (NSA) for:	July 2016	240.647	August 2016	240.853	September 2016	241.428

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
November 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	
November 1 2016	240.85300	1.03224	1.03344	1.02788	1.01435	
November 2 2016	240.87217	1.03232	1.03352	1.02796	1.01443	
November 3 2016	240.89133	1.03240	1.03361	1.02805	1.01451	
November 4 2016	240.91050	1.03249	1.03369	1.02813	1.01459	
November 5 2016	240.92967	1.03257	1.03377	1.02821	1.01467	
November 6 2016	240.94883	1.03265	1.03385	1.02829	1.01475	
November 7 2016	240.96800	1.03273	1.03394	1.02837	1.01483	
November 8 2016	240.98717	1.03281	1.03402	1.02845	1.01491	
November 9 2016	241.00633	1.03290	1.03410	1.02854	1.01499	
November 10 2016	241.02550	1.03298	1.03418	1.02862	1.01508	
November 11 2016	241.04467	1.03306	1.03426	1.02870	1.01516	
November 12 2016	241.06383	1.03314	1.03435	1.02878	1.01524	
November 13 2016	241.08300	1.03323	1.03443	1.02886	1.01532	
November 14 2016	241.10217	1.03331	1.03451	1.02895	1.01540	
November 15 2016	241.12133	1.03339	1.03459	1.02903	1.01548	
November 16 2016	241.14050	1.03347	1.03468	1.02911	1.01556	
November 17 2016	241.15967	1.03355	1.03476	1.02919	1.01564	
November 18 2016	241.17883	1.03364	1.03484	1.02927	1.01572	
November 19 2016	241.19800	1.03372	1.03492	1.02935	1.01580	
November 20 2016	241.21717	1.03380	1.03500	1.02944	1.01588	
November 21 2016	241.23633	1.03388	1.03509	1.02952	1.01596	
November 22 2016	241.25550	1.03396	1.03517	1.02960	1.01604	
November 23 2016	241.27467	1.03405	1.03525	1.02968	1.01612	
November 24 2016	241.29383	1.03413	1.03533	1.02976	1.01621	
November 25 2016	241.31300	1.03421	1.03542	1.02985	1.01629	
November 26 2016	241.33217	1.03429	1.03550	1.02993	1.01637	
November 27 2016	241.35133	1.03438	1.03558	1.03001	1.01645	
November 28 2016	241.37050	1.03446	1.03566	1.03009	1.01653	
November 29 2016	241.38967	1.03454	1.03574	1.03017	1.01661	
November 30 2016	241.40883	1.03462	1.03583	1.03025	1.01669	
CPI-U (NSA) for:	July 2016	240.647	August 2016	240.853	September 2016	241.428

TREASURY INFLATION-PROTECTED SECURITIES (TIPS)
Ref CPI and Index Ratios for
November 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 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	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	
November 1 2016	240.85300	1.01688	1.02281	1.02849	1.01564	
November 2 2016	240.87217	1.01696	1.02289	1.02857	1.01572	
November 3 2016	240.89133	1.01705	1.02297	1.02866	1.01580	
November 4 2016	240.91050	1.01713	1.02305	1.02874	1.01588	
November 5 2016	240.92967	1.01721	1.02314	1.02882	1.01597	
November 6 2016	240.94883	1.01729	1.02322	1.02890	1.01605	
November 7 2016	240.96800	1.01737	1.02330	1.02898	1.01613	
November 8 2016	240.98717	1.01745	1.02338	1.02907	1.01621	
November 9 2016	241.00633	1.01753	1.02346	1.02915	1.01629	
November 10 2016	241.02550	1.01761	1.02354	1.02923	1.01637	
November 11 2016	241.04467	1.01769	1.02362	1.02931	1.01645	
November 12 2016	241.06383	1.01777	1.02371	1.02939	1.01653	
November 13 2016	241.08300	1.01785	1.02379	1.02947	1.01661	
November 14 2016	241.10217	1.01794	1.02387	1.02956	1.01669	
November 15 2016	241.12133	1.01802	1.02395	1.02964	1.01677	
November 16 2016	241.14050	1.01810	1.02403	1.02972	1.01685	
November 17 2016	241.15967	1.01818	1.02411	1.02980	1.01693	
November 18 2016	241.17883	1.01826	1.02419	1.02988	1.01702	
November 19 2016	241.19800	1.01834	1.02428	1.02997	1.01710	
November 20 2016	241.21717	1.01842	1.02436	1.03005	1.01718	
November 21 2016	241.23633	1.01850	1.02444	1.03013	1.01726	
November 22 2016	241.25550	1.01858	1.02452	1.03021	1.01734	
November 23 2016	241.27467	1.01866	1.02460	1.03029	1.01742	
November 24 2016	241.29383	1.01874	1.02468	1.03037	1.01750	
November 25 2016	241.31300	1.01883	1.02476	1.03046	1.01758	
November 26 2016	241.33217	1.01891	1.02485	1.03054	1.01766	
November 27 2016	241.35133	1.01899	1.02493	1.03062	1.01774	
November 28 2016	241.37050	1.01907	1.02501	1.03070	1.01782	
November 29 2016	241.38967	1.01915	1.02509	1.03078	1.01790	
November 30 2016	241.40883	1.01923	1.02517	1.03087	1.01799	
CPI-U (NSA) for:	July 2016	240.647	August 2016	240.853	September 2016	241.428

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

Security:			0-5/8% 10-Year TIPS	1% 30-Year TIPS	0-1/8% 5-Year TIPS	0-1/8% 10-Year TIPS
Description:			Series A-2026	TIPS of February 2046	Series X-2021	Series D-2026
CUSIP Number:			912828N71	912810RR1	912828Q60	912828S50
Dated Date:			January 15, 2016	February 15, 2016	April 15, 2016	July 15, 2016
Original Issue Date:			January 29, 2016	February 29, 2016	April 29, 2016	July 29, 2016
Additional Issue Date(s):			March 31, 2016	June 30, 2016	August 31, 2016	September 30, 2016
Maturity Date:			January 15, 2026	February 15, 2046	April 15, 2021	July 15, 2026
Ref CPI on Dated Date:			237.61129	236.94448	237.00700	239.70132
Date	Ref CPI	Index Ratio	Index Ratio	Index Ratio	Index Ratio	
November 1 2016	240.85300	1.01364	1.01650	1.01623	1.00480	
November 2 2016	240.87217	1.01372	1.01658	1.01631	1.00488	
November 3 2016	240.89133	1.01380	1.01666	1.01639	1.00496	
November 4 2016	240.91050	1.01388	1.01674	1.01647	1.00504	
November 5 2016	240.92967	1.01397	1.01682	1.01655	1.00512	
November 6 2016	240.94883	1.01405	1.01690	1.01663	1.00520	
November 7 2016	240.96800	1.01413	1.01698	1.01671	1.00528	
November 8 2016	240.98717	1.01421	1.01706	1.01679	1.00536	
November 9 2016	241.00633	1.01429	1.01714	1.01687	1.00544	
November 10 2016	241.02550	1.01437	1.01722	1.01696	1.00552	
November 11 2016	241.04467	1.01445	1.01730	1.01704	1.00560	
November 12 2016	241.06383	1.01453	1.01739	1.01712	1.00568	
November 13 2016	241.08300	1.01461	1.01747	1.01720	1.00576	
November 14 2016	241.10217	1.01469	1.01755	1.01728	1.00584	
November 15 2016	241.12133	1.01477	1.01763	1.01736	1.00592	
November 16 2016	241.14050	1.01485	1.01771	1.01744	1.00600	
November 17 2016	241.15967	1.01493	1.01779	1.01752	1.00608	
November 18 2016	241.17883	1.01501	1.01787	1.01760	1.00616	
November 19 2016	241.19800	1.01509	1.01795	1.01768	1.00624	
November 20 2016	241.21717	1.01518	1.01803	1.01776	1.00632	
November 21 2016	241.23633	1.01526	1.01811	1.01784	1.00640	
November 22 2016	241.25550	1.01534	1.01819	1.01793	1.00648	
November 23 2016	241.27467	1.01542	1.01828	1.01801	1.00656	
November 24 2016	241.29383	1.01550	1.01836	1.01809	1.00664	
November 25 2016	241.31300	1.01558	1.01844	1.01817	1.00672	
November 26 2016	241.33217	1.01566	1.01852	1.01825	1.00680	
November 27 2016	241.35133	1.01574	1.01860	1.01833	1.00688	
November 28 2016	241.37050	1.01582	1.01868	1.01841	1.00696	
November 29 2016	241.38967	1.01590	1.01876	1.01849	1.00704	
November 30 2016	241.40883	1.01598	1.01884	1.01857	1.00712	
CPI-U (NSA) for:	July 2016	240.647	August 2016	240.853	September 2016	241.428